

DESIGN DESIGNATION

Current A.D.T. (1997) = 3,860
 Design Year A.D.T. (2017) = 8,450
 DHV (2017) = 845
 D = 55 %
 T = 2 %
 Design Speed = 25/35 MPH
 Legal Speed = 25/35 MPH
 Functional Classification = Major Collector, Secondary

DESIGN EXCEPTION

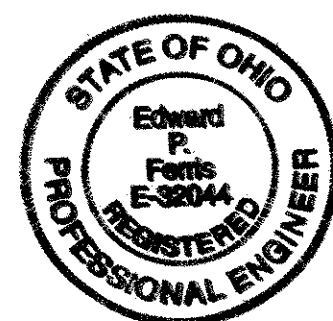
NONE REQUIRED

CONVENTIONAL SIGNS

County Line Township Line Section Line Corporation Line Fence (existing) (proposed) Center Line Trees Stumps (to be removed) Utility Poles: Telephone Power Light Guy Guardrail (existing) (proposed) Water Line W W W Gas Line G G G Property Line Existing Right of Way Ex. R/W Existing Limited Access Ex. LA Proposed Easement Line

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Ed P. Ferris 32044 11-6-96
 REGISTERED ENGINEER NO. DATE

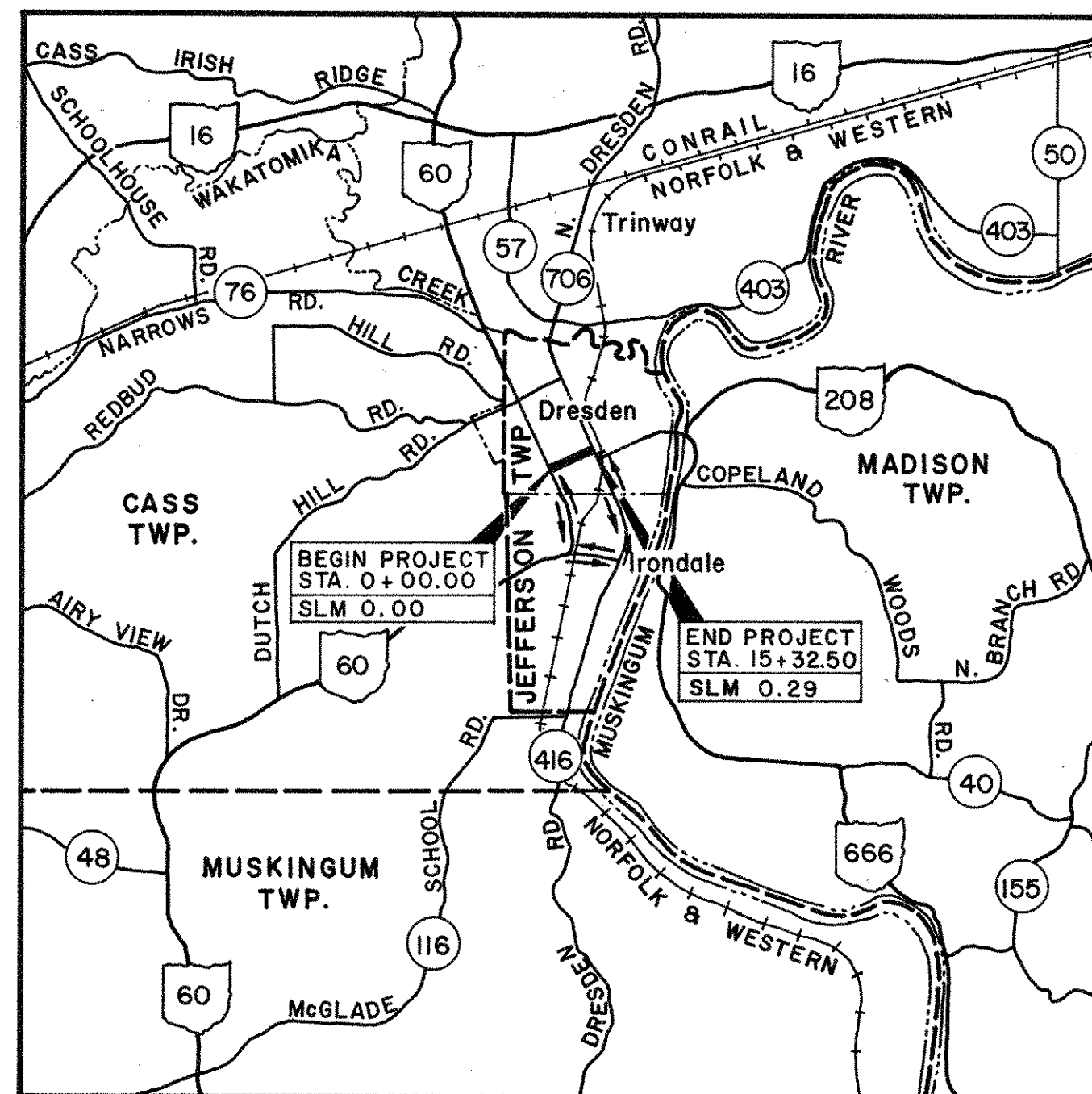
PROJECT: MUS-208-0.00
 DATE OF LETTING: _____ 19____, CONTRACT NO. _____

PLAN PREPARED BY
E. P. FERRIS & ASSOCIATES, INC.
 766 NORTHWEST BLVD.
 COLUMBUS, OHIO 43212
 (614) 299-2999
 FOR
 THE STATE OF OHIO

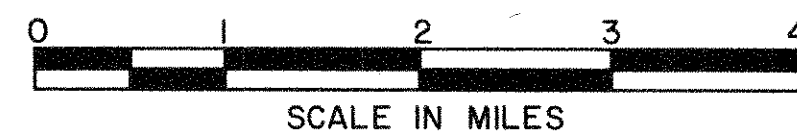
UNDERGROUND UTILITIES
**TWO WORKING DAYS
 BEFORE YOU DIG**
 CALL... 1-800-362-2764 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
**NON-MEMBERS
 MUST BE CALLED DIRECTLY**

STATE OF OHIO
 DEPARTMENT OF TRANSPORTATION
MUS - 208 - 0.00
 VILLAGE OF DRESDEN
 JEFFERSON TOWNSHIP
MUSKINGUM COUNTY

MICROFILMED
 MAR 30 1998



LOCATION MAP



Portion to be Improved _____
 State & Federal Routes _____
 Other Roads _____
 Detour _____
SCALES
 PLAN: _____ 0 20
 PROFILE: _____ Horizontal 0 20, Vertical 0 5
 CROSS SECTIONS: _____ Horizontal 0 5, Vertical 0 5

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS							
NUMBER	DATE	NUMBER	DATE	NUMBER	DATE	NUMBER	DATE
BP-3.1	2-21-92	CB-2-2A&B	5-1-79	MH-1	12-18-84	TC-41.20	3-26-79
BP-4.1	2-21-92	CB-2-5&2-6	5-1-79	MH-3	12-18-84	TC-42.20	3-26-79
BP-5.1	10-28-94	CB-3	5-1-79			TC-52.10	4-3-79
BP-7.1	10-30-92	CB-3A	5-1-79	MT-99.10	11-14-86	TC-52.20	4-3-79
MC-1	6-13-69	CB-6	5-1-79	MT-105.10	7-1-92		
MC-2	7-7-81	CB-7	12-18-84	MT-105.11	7-1-92	TC-71.10	9-10-91
MC-4	7-26-76	HW-4A	4-1-80			TC-83.10	3-18-92
MC-11	8-1-78	HW-4B	4-1-80	LA-1	6-1-79	TC-85.20	1-20-84

SUPPLEMENTAL SPECIFICATIONS	
NUMBER	DATE
802	3-23-95
820	6-14-95
931	7-17-95
942	6-14-95
944	12-7-95
945	6-14-95

PROJECT DESCRIPTION:

Reconstruction of S.R. 208 from S.R. 60 to Main St. with Storm Sewers and Sidewalks.

1995 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved *Michael J. Coy*
 Date 11/14/96 District Deputy Director of Transportation

Approved *[Signature]*
 Date 11-29-96 Director, Department of Transportation

VILLAGE OF DRESDEN:

Approved *Robert Lane*
 Date 11/15/96 Mayor

FEDERAL PROJECT NO.
STP

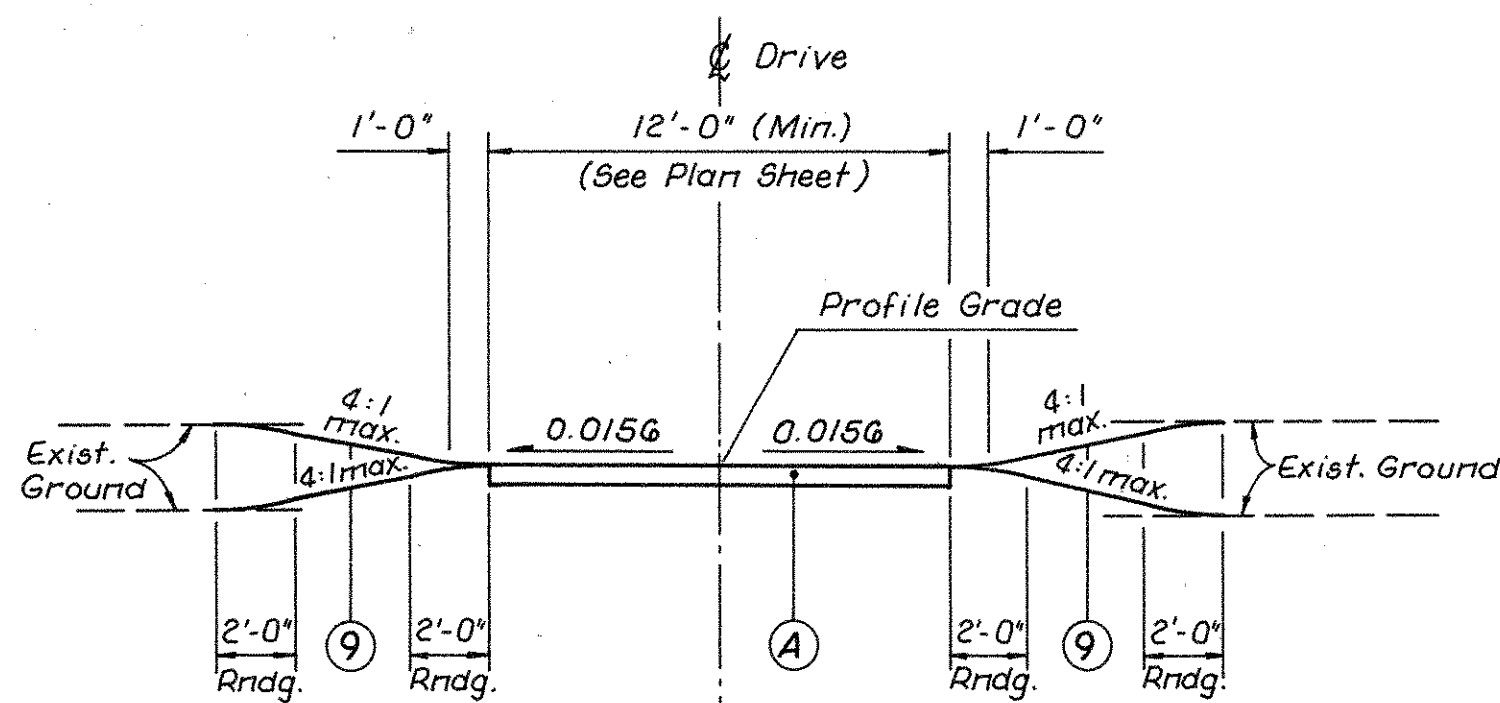
PID NO.
13512

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT
NONE

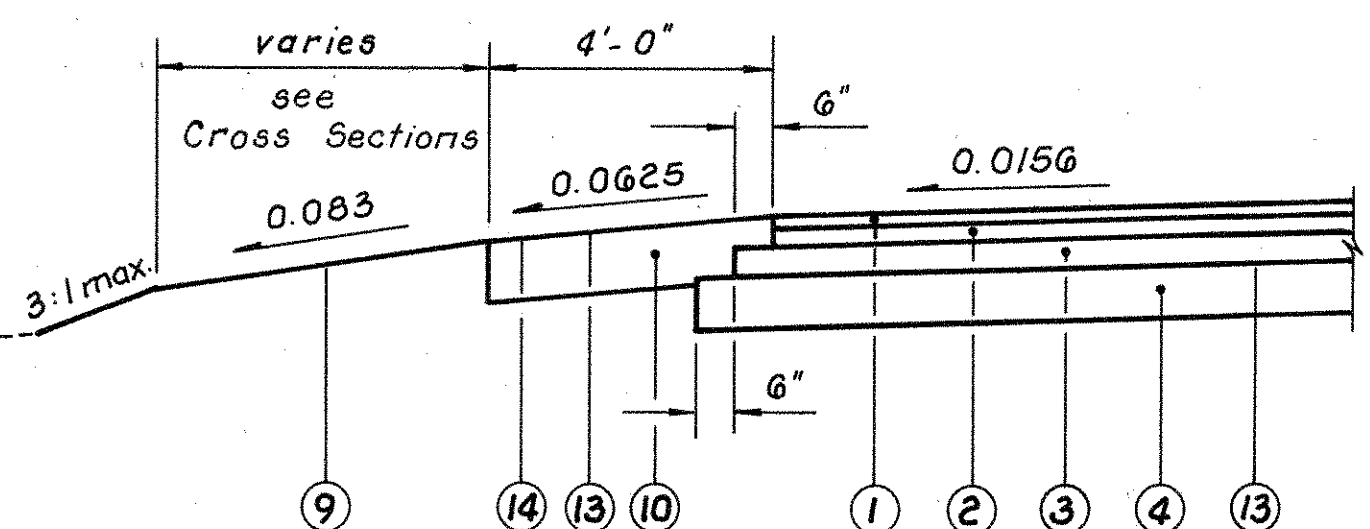
MUS-208-0.00

TYPICAL SECTIONS



DRIVEWAY TYPICAL

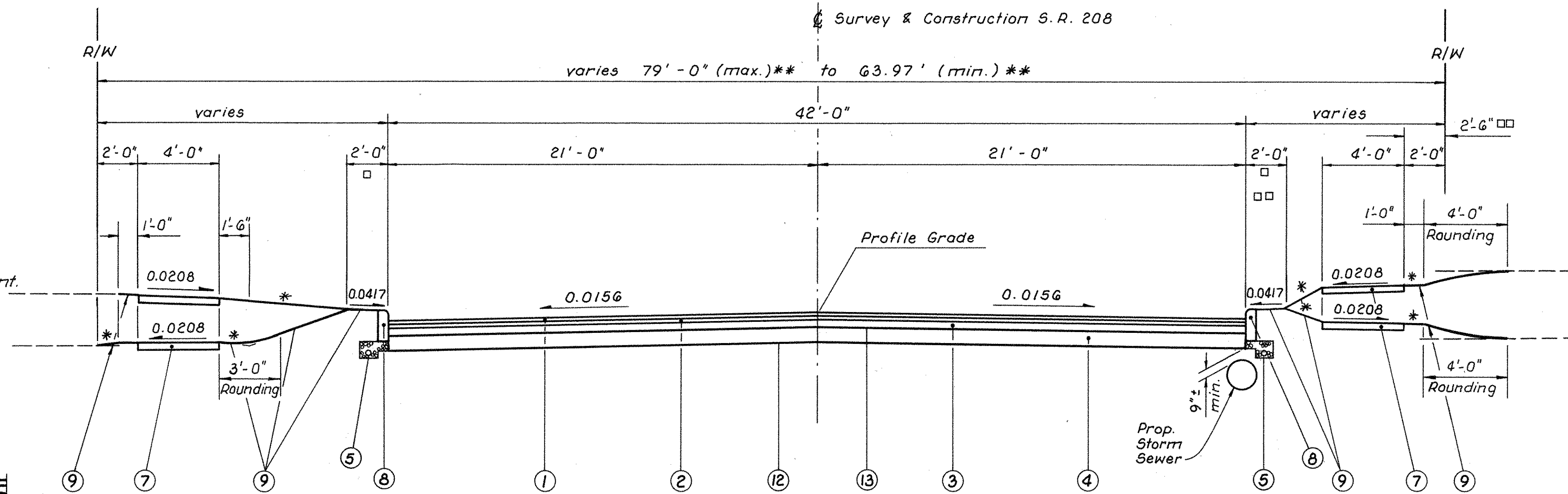
- Residential Drives
(See Sheet 4 for Plan View)
- Ⓐ ΔΔ 6" 452 Plain Concrete Pavement or 1 1/4" 404 Asphalt Concrete, AC-20 (Driveways) 3 3/4" 301 Bituminous Aggregate Base
 - ΔΔ same surface as existing drive
 - Driveway Approach, back of curb to back of sidewalk shall be 6" 452 Plain Concrete Pavement.
 - Commercial Drives:
8" 452 Plain Concrete Pavement



Sta. 0+00 to Sta. 0+66.23 S.R. 208 = 66.23 Lin. Ft.

BITUMINOUS SURFACE TREATED SHOULDER DETAIL

Not to Scale

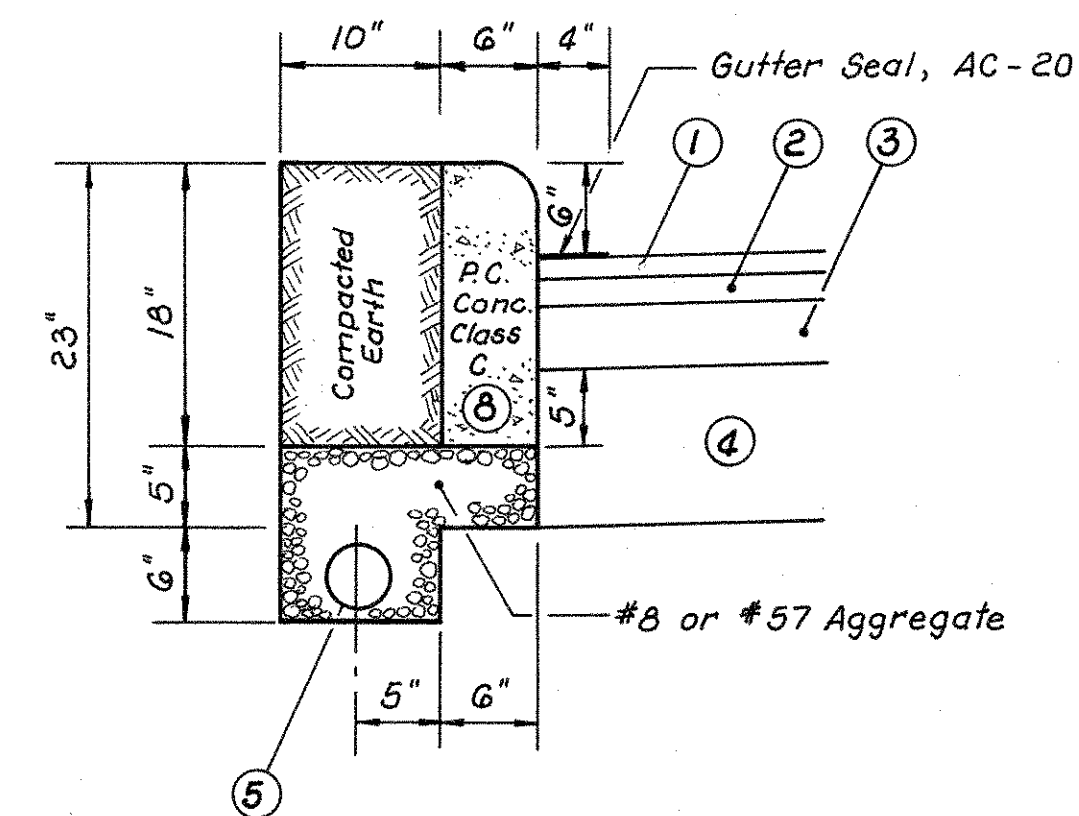


TYPICAL SECTION 1

Sta. 0+00.00 to Sta. 15+32.50 S.R. 208 = 1532.50 Lin. Ft.

- * 3:1 max. ~ See Cross Sections
- ** 79'-0" to 66'-0" ~ Sta. 1+07.50 (±) to 2+48.5
63.97' ~ Sta. 2+82 (±) to 8+03.5
66'-0" ~ Sta. 8+85.5 (±) to 15+20.35

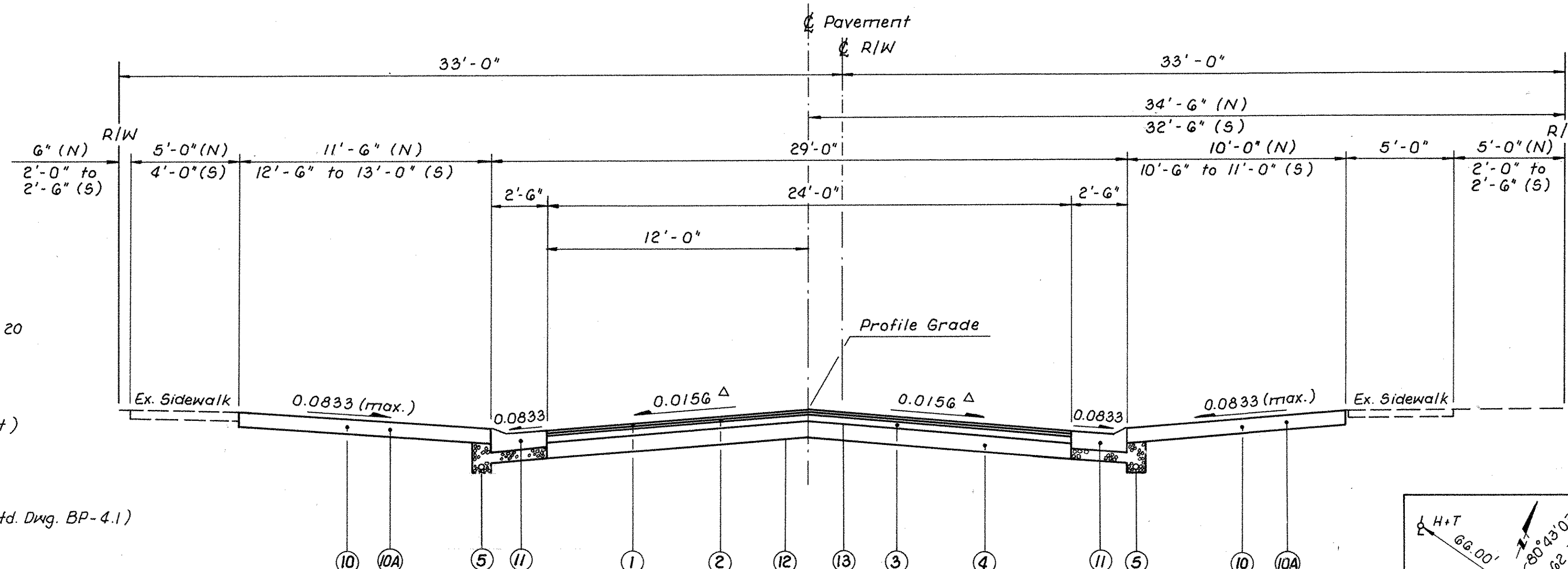
- 2'-0" on Lower Sidewalk, Typical
0'-0" on Upper Sidewalk, Typical
- Sta. 1+31 to 2+51, see Cross Sections for Reverse Slope behind Curb
- Δ Slope may vary at intersections



UNDERDRAIN DETAIL

No Scale

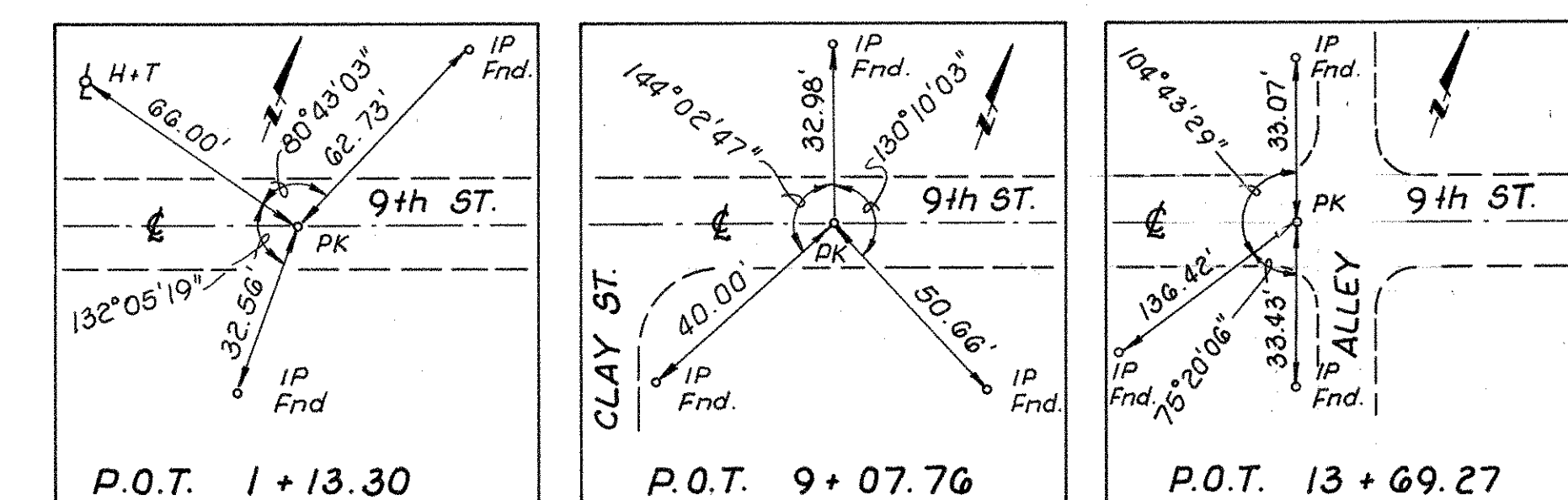
NOTE:
All exposed surfaces of concrete curb to be floated and brush finished, unless placed by a curb machine. Gutter Seal payment shall be included in the price bid per C.Y. for Item 448 Asphalt Concrete Surface Course, Type I, AC-20. The Contractor shall exercise extreme caution while applying the Gutter Seal material to prevent it from staining the curb surface. The Engineer may request that the Gutter Seal be removed from the Curb Surface at the Contractor's Expense if it exceeds one inch above the Gutter.



TYPICAL SECTION 2

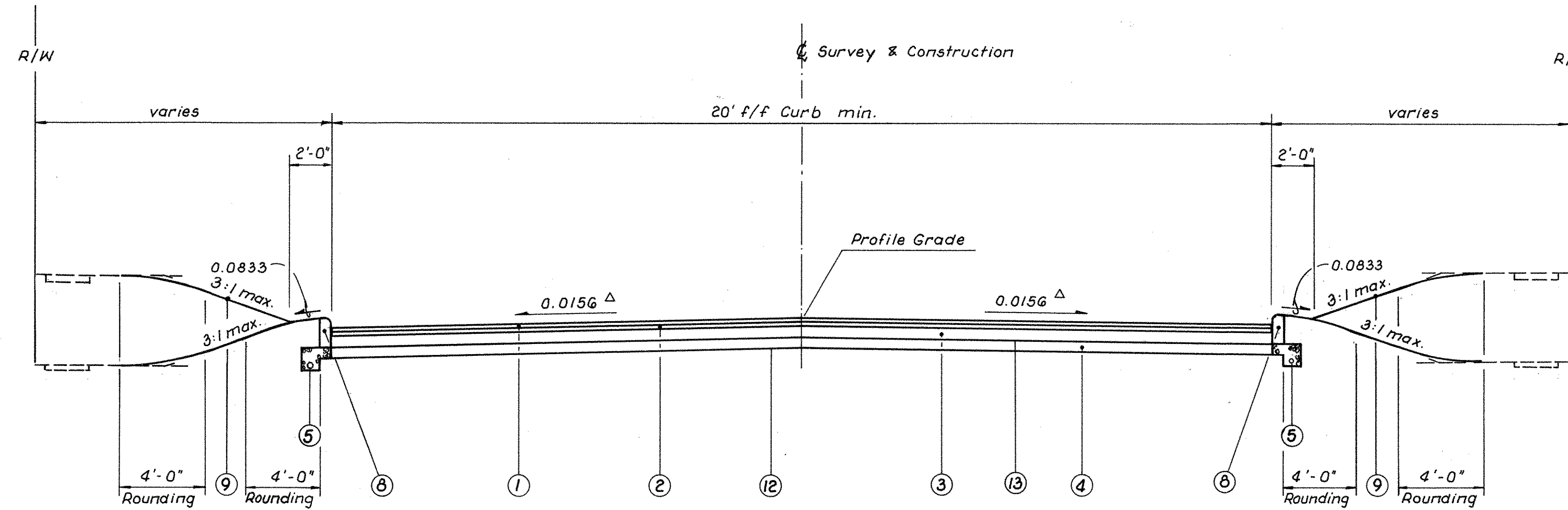
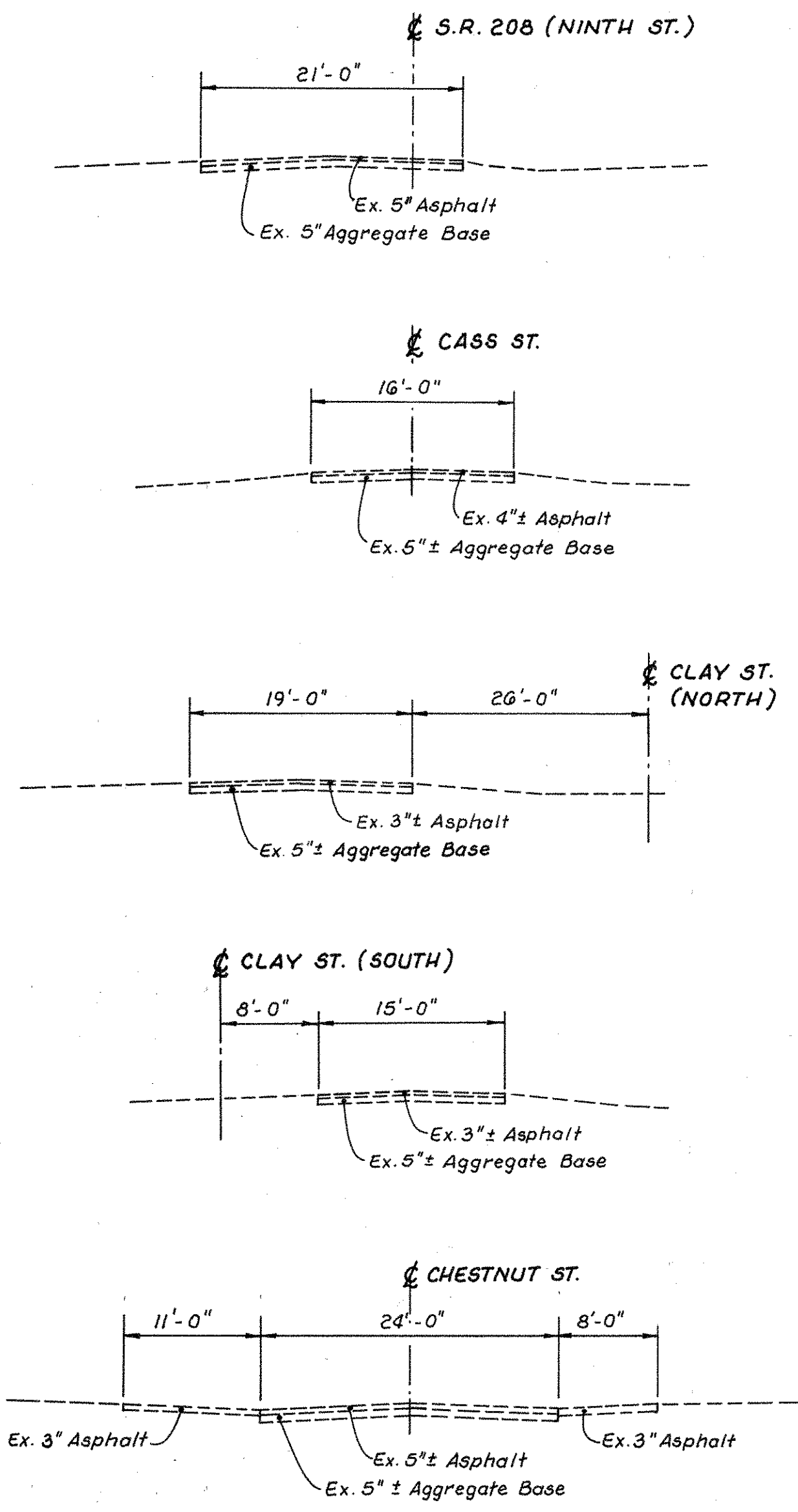
CHESTNUT ST. ~ Sta. 8+80.00 to Sta. 9+79.00 (S) = 99.00 Lin. Ft. (10)
& Sta. 10+21.00 to Sta. 10+90.00 (N) = 69.00 Lin. Ft. (10A)
168.00 Lin. Ft.

- | ITEM | DESCRIPTION |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| ① | 448 ~ 1 1/4" Asphalt Concrete Surface Course, Type I, AC-20 |
| ② | 448 ~ 1 3/4" Asphalt Concrete Intermediate Course, Type II, AC-20 |
| ③ | 301 ~ 4" Bituminous Aggregate, AC-20 |
| ④ | 304 ~ 10" Aggregate Base |
| ⑤ | 605 ~ 4" Shallow Pipe Underdrain, as per plan (see this Sheet) |
| ⑥ | Not used |
| ⑦ | 608 ~ Concrete Walk (t=4") |
| ⑧ | 609 ~ Curb, Type G (For Drop Curb Details at Driveways, see Std. Dwg. BP-4.1) |
| ⑨ | 659 ~ Seeding and Mulching |
| ⑩ | 304 ~ 8" Aggregate Base |
| ⑪ | 609 ~ Combination Curb and Gutter, Type 3 |
| ⑫ | 203 ~ Subgrade Compaction |
| ⑬ | 408 ~ Bituminous Prime Coat (applied at rate of 0.40 gal./S.Y.) |
| ⑭ | 409 ~ Seal Coat Bituminous Material (applied at rate of 0.30 gal./S.Y.) and Seal Coat Cover Aggregate No. 8 (applied at rate of 0.008 C.Y./S.Y.) |
| ⑩A | 404 ~ 1 1/4" Asphalt Concrete, AC-20 (Driveways)
301 ~ 4 3/4" Bituminous Aggregate Base, AC-20 |



REFERENCES

TYPICAL SECTIONS



TYPICAL SECTION 3

CASS ST. ~ Sta. 9+46.00 to Sta. 10+60.00 = 72.00 Lin. Ft. ΔΔ

CLAY ST. ~ Sta. 9+44.00 to Sta. 10+60.00 = 74.00 Lin. Ft. ΔΔ

127.00 Lin. Ft.

* 3:1 max. ~ See Cross Sections

Δ Slope may vary at intersections

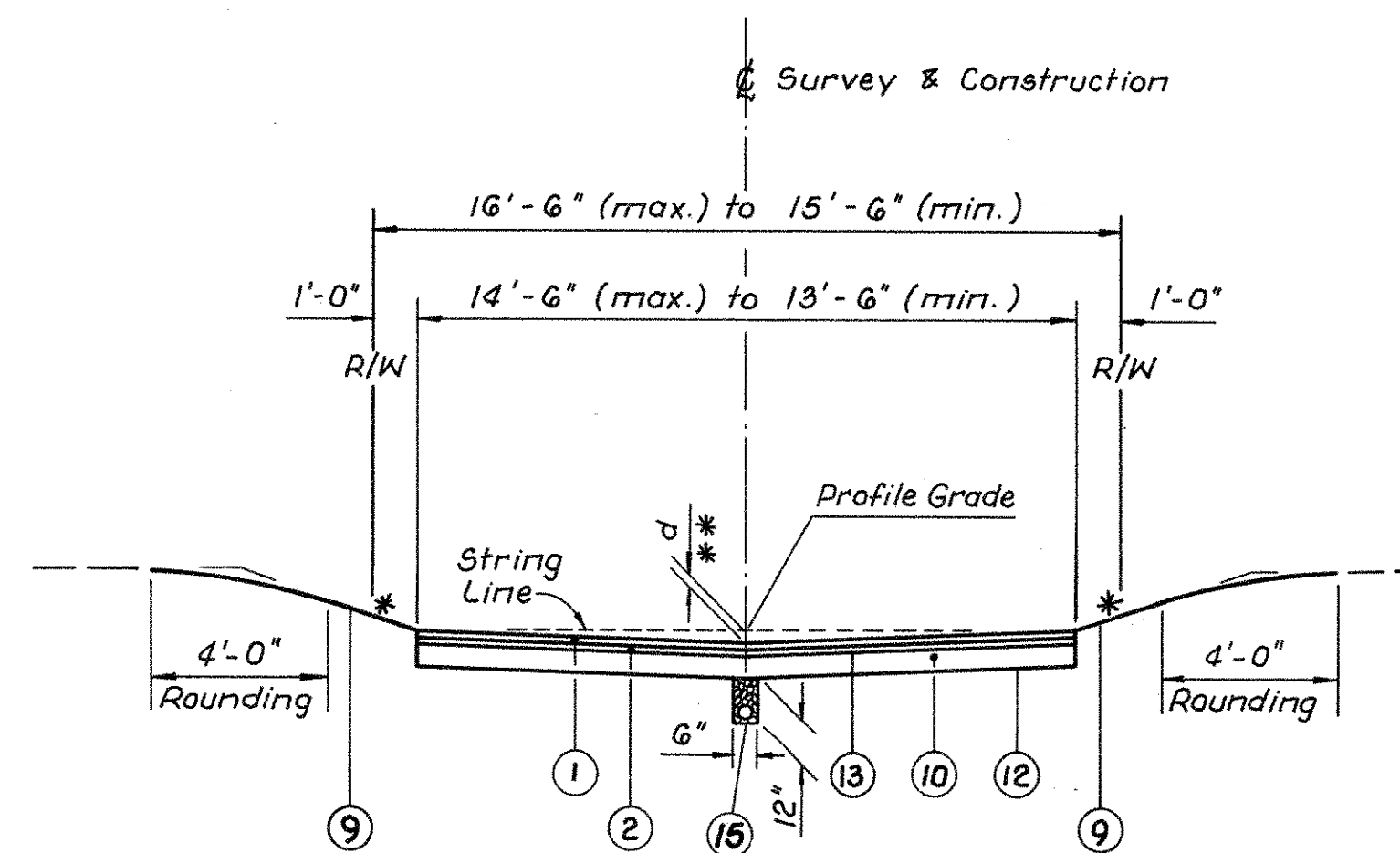
ΔΔ Quantity from 21.0' Lt. and Rt. to Butt End Joint tie-ins (stations given) on Side Street. (i.e.: difference in stations - 42.0' = Quantities)

SIDEStreETS & ALLEYS	
NAME	EX. PAV'T. WIDTH
CASS ST. (N.)	17.5'
CASS ST. (S.)	16.0'
CLAY ST. (N.)	19.0'
CLAY ST. (S.)	15.0'
ALLEY (S.)	13.5'
CHESTNUT ST. (N)	44.5' (w/ Parking) ***
CHESTNUT ST. (N)	35.5' (Street) ***
CHESTNUT ST. (S)	24.0' ***
ALLEY (N)	14.5'
ALLEY (S)	14.5'

Note: Streets & Alleys in up Station order

*** These values are existing. Proposed pavement is shown on Typical Section 2.

- | ITEM | DESCRIPTION |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| ① | 448 ~ 1/4" Asphalt Concrete Surface Course, Type I, AC - 20 |
| ② | 448 ~ 1 3/4" Asphalt Concrete Intermediate Course, Type II, AC - 20 |
| ③ | 301 ~ 4" Bituminous Aggregate, AC - 20 |
| ④ | 304 ~ 10" Aggregate Base |
| ⑤ | 605 ~ 4" Shallow Pipe Underdrain, as per plan (see Sheet 3) |
| ⑥ | Not used |
| ⑦ | 608 ~ Concrete Walk (t = 4") Δ |
| ⑧ | 609 ~ Curb, Type G (For Drop Curb Details at Driveways, see Std. Dwg. BP-4.1) |
| ⑨ | 659 ~ Seeding and Mulching |
| ⑩ | 304 ~ 8" Aggregate Base |
| ⑪ | 609 ~ Combination Curb and Gutter, Type 3 |
| ⑫ | 203 ~ Subgrade Compaction |
| ⑬ | 408 ~ Bituminous Prime Coat (applied at rate of 0.40 gal./S.Y.) |
| ⑭ | 409 ~ Seal Coat Bituminous Material (applied at rate of 0.30 gal./S.Y.) and Seal Coat Cover Aggregate No. 8 (applied at rate of 0.008 C.Y./S.Y.) |
| ⑮ | 605 ~ 4" Shallow Pipe Underdrain |



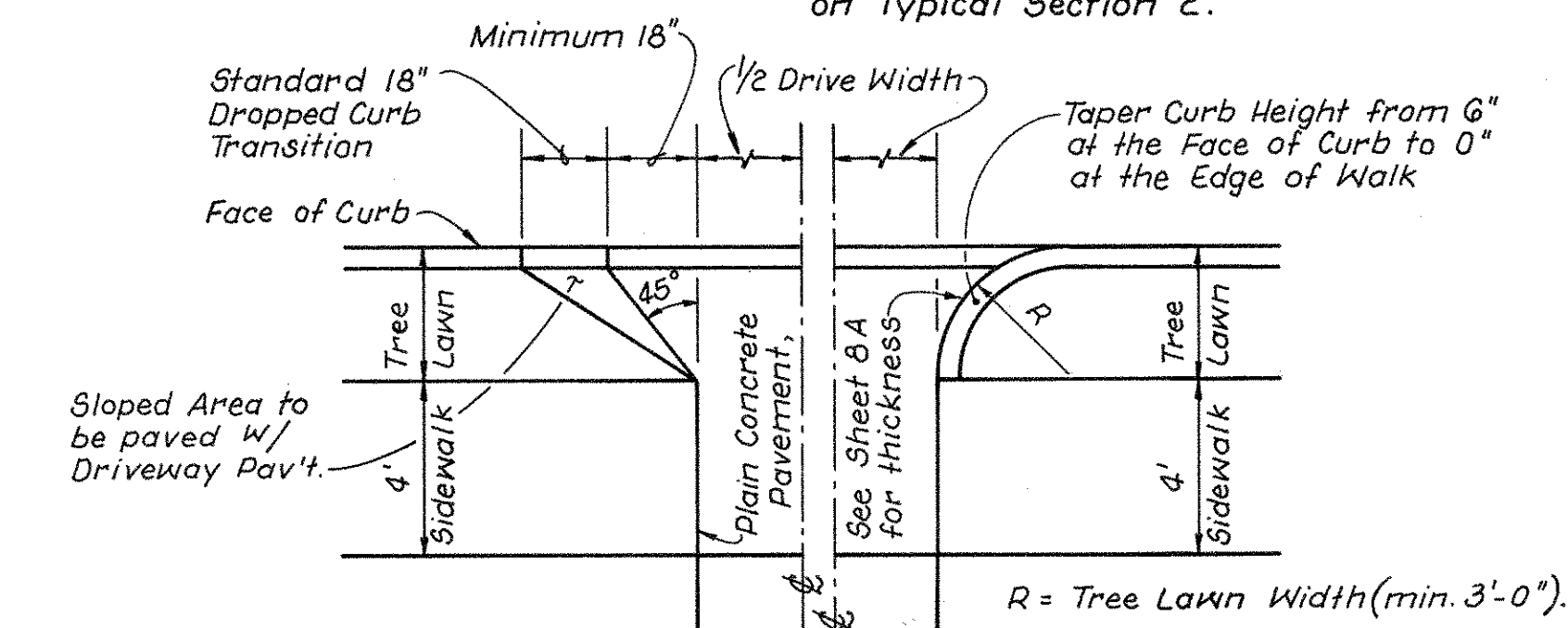
TYPICAL SECTION 4

(1) ALLEY W. of Chestnut ~ Sta. 8+50.00 to Sta. 9+79.00 = 129.00 Lin. Ft.

(2) ALLEY E. of Chestnut ~ Sta. 8+90.00 to Sta. 9+79.00 = 89.00 Lin. Ft.

(3) ALLEY E. of Chestnut ~ Sta. 10+21.00 to Sta. 10+60.00 = 39.00 Lin. Ft.

257.00 Lin. Ft.



Drive is symmetrical about C

PLAN ~ DRIVEWAY TYPICAL

NOTE:

DEDICATED WIDTH	PAVING WIDTH	d"
(1) 15.50'	13.50'	2 7/8"
(2) 16.50'	14.50'	3 1/8"
(3) 16.50'	14.50'	3 1/8"

or as shown on Pavement Details.

GENERAL NOTES

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ELECTRIC: OHIO POWER CO. 113 N. FIFTH ST. ZANESVILLE, OHIO 43701 (614) 455-4710	WATER AND SANITARY SEWER: VILLAGE OF DRESDEN 904 CHESTNUT ST. DRESDEN, OHIO 43821 (614) 754-3151
---------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------

TELEPHONE: AMERITECH 150 E. GAY STREET COLUMBUS, OHIO 43215 (614) 223-6985	GAS: COLUMBIA GAS OF OHIO 2429 LINDEN AVE. ZANESVILLE, OHIO 43701 (614) 452-5467
----------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------

CABLE TELEVISION: TELE-COMMUNICATIONS, INC. 737 HOWARD ST. ZANESVILLE, OHIO 43701 (614) 452-5414	COLUMBIA GAS TRANSMISSION 11296 E. PIKE RD. CAMBRIDGE, OHIO 43275-9669 (614) 432-2130
--------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICE SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7 P.M. AND 7 A.M. IN ADDITION, ANY SUCH DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.C. & G.S. SEA LEVEL DATUM OF 1929.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	5	2	7
30"	2	1	3
48"	1	1	2

ITEM 666. PRUNING EXISTING TREES

THE FOLLOWING ESTIMATED QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER

666 PRUNING EXISTING TREES, 3 TO 8IN. DIAMETER	10 EACH
666 PRUNING EXISTING TREES, 8 TO 16IN. DIAMETER	10 EACH
666 PRUNING EXISTING TREES, 16 TO 24IN. DIAMETER	10 EACH

ITEM 659. SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR ITEM 659, SEEDING AND MULCHING, ARE BASED ON THESE LIMITS PLUS 10 FEET EACH SIDE.

WATERING AND MOWING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR PERMANENT SEEDED AREAS PER 659.09:

659 WATER	25 M. GAL.
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TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

207 TEMPORARY SEEDING AND MULCHING	1700 SQ. YD
207 STRAW OR HAY BALES	80 EACH
207 FILTER FABRIC FENCE	200 LIN. FT.
659 MOWING	2100 M SQ. FT.
659 COMMERCIAL FERTILIZER	0.10 TON
659 REPAIR SEEDING AND MULCHING	425 SQ. YD.
659 WATER	1 M. GAL.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEM.

RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS

EXISTING ROOF DRAINS, FOOTER DRAINS, OR YARD DRAINS, DISTURBED BY THE WORK, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTING A CONDUIT THROUGH THE CURB AND UNDER SIDEWALK OR INTO A DRAINAGE STRUCTURE. THE LOCATION, TYPE, SIZE AND GRADE OF THE NEW CONDUIT REQUIRED TO REPLACE OR EXTEND THE EXISTING DRAIN WILL BE DETERMINED BY THE ENGINEER.

IF 0.50% GRADE CAN BE MAINTAINED FROM THE CURB TO THE R/W LINE WITH 6" OF COVER, THE CONTRACTOR SHALL PROVIDE 2 ROOF DRAIN OPENINGS IN THE CURB & SHALL CONSTRUCT A 4" PIPE FROM THE CURB TO THE R/W LINE FOR EACH RESIDENCE OR COMMERCIAL BUILDING.

QUANTITIES FOR THE ABOVE ARE INCLUDED IN THE ESTIMATED QUANTITIES BELOW.

THE FOLLOWING CONDUIT TYPES MAY BE USED: 707.19 PS46 MIN, 707.17 NON-PERFORATED, SS931 OR SS944.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

603 4" CONDUIT, TYPE E, FOR DRAINAGE CONNECTION	200 L.F.
603 4" CONDUIT, TYPE F, FOR DRAINAGE CONNECTION	50 L.F.
603 6" CONDUIT, TYPE E, FOR DRAINAGE CONNECTION	200 L.F.
603 6" CONDUIT, TYPE F, FOR DRAINAGE CONNECTION	50 L.F.
603 8" CONDUIT, TYPE E, FOR DRAINAGE CONNECTION	50 L.F.
603 8" CONDUIT, TYPE F, FOR DRAINAGE CONNECTION	50 L.F.

UNRECORDED SANITARY CONNECTIONS

ANY UNRECORDED ACTIVE CONNECTION TO A SANITARY SEWER ENCOUNTERED DURING CONSTRUCTION SHALL BE RECONNECTED TO THE EXISTING SANITARY SEWER TO THE SATISFACTION OF THE ENGINEER.

THE FOLLOWING CONDUIT TYPES SHALL BE USED: SS945, SS942, SS931, 706.01, 706.02, OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

603 6" CONDUIT, TYPE C, FOR SANITARY	50 L.F.
603 6" CONDUIT, TYPE B, FOR SANITARY	50 L.F.

WATER LINE CONSTRUCTION SEQUENCE

1. CONSTRUCT THE 4"x4" TAPPING SLEEVE AND VALVE AT 2+62, 44' LT. AND THE 6" WATER MAIN FROM 2+62, 44' LT. TO 2+57, 41' RT. BUT DO NOT CONNECT TO EXISTING 4".

2. CONSTRUCT 6" WATER MAIN FROM 2+30, 22' LT. TO 2+67, 29' LT. BUT DO NOT CONNECT TO EXISTING 4".

3. CONSTRUCT 6" WATER LINES AND APPURTENANCES FROM 2+67, 29' LT. TO 15+32, 15' LT. AND 8+50, 37' LT. TO 8+50, 28' LT. CONSTRUCT THE 6" WATER LINES AND APPURTENANCES FROM 8+95 CHESTNUT ST., 10' RT. TO 10+65 CHESTNUT ST., 9.5' RT. BUT DO NOT CONNECT TO EXISTING 6". CONSTRUCT THE 6" VALVE AT 8+69, 28' LT. AND RESTRAIN AS REQUIRED. DISINFECT AND CHLORINATE, AS REQUIRED ALL AFOREMENTIONED WATER LINES. MAKE TIE-INS AT 2+30, 22' LT. AND 2+57, 41' RT. AND PLUG EXISTING MAIN AT THOSE LOCATIONS. MAKE TIE-INS AT 8+95 CHESTNUT ST., 10' RT. AND 10+65 CHESTNUT ST., 9.5' RT. OPEN TAPPING VALVE AT 2+62, 44' LT. AND MAINTAIN SERVICE IN BOTH SYSTEMS UNTIL THE TRANSFER OF SERVICE BRANCHES TO THE NEW 6" WATER MAIN IS COMPLETED. THEN CUT & PLUG EX. 4" WATER MAIN SOUTH OF 4"x4" TAPPING SLEEVE & VALVE AT 2+62, 44' LT. AND ABANDON THE EXISTING LINES.

4. CONSTRUCT 6" WATER LINE AND APPURTENANCES FROM 8+69, 28' LT. TO 8+74, 52' RT. AND DISINFECT AND CHLORINATE, AS REQUIRED.

5. ACCORDING TO DALE FARREL, WATER SUPERINTENDENT, VILLAGE OF DRESDEN (614) 754-3300, THE WATER FLOW AT THE INTERSECTION OF CASS/NINTH STREET CAN BE MAINTAINED SINCE WATER FLOW CAN BE BACK FED TO INTERSECTION FROM ALL DIRECTIONS EXCEPT FROM THE WEST. MINIMUM INCONVENIENCE TO CUSTOMERS WILL BE PERMITTED WITH A MAXIMUM OF TWO (2) HOURS INSTALLATION PERIOD FOR EACH TIE-IN. ONLY ONE TIE-IN SHALL BE INSTALLED AT ANY ONE TIME. ALL AFFECTED PROPERTY OWNERS SHALL BE NOTIFIED BY CONTRACTOR TWENTY-FOUR (24) HOURS IN ADVANCE.

6. ALL "CUT & PLUG" EXISTING WATER LINES SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE UNIT COST BID FOR VARIOUS BID ITEMS FOR ITEM 638.

7. ALL PROPOSED FIRE HYDRANTS SHALL BE MUELLER, A423NST 6" SHOE

MAINTENANCE OF TRAFFIC

GENERAL

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

404 BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	5 CU. YD.
410 TRAFFIC COMPACTED SURFACE, TYPE A OR B	50 CU. YD.
616 CALCIUM CHLORIDE	1 TONS
616 WATER	50 M. GALS.

PRIOR TO THE PLACEMENT OF ITEM 448 SURFACE COURSE, TYPE I, AC-20 THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER

407 TACK COAT	600 GAL.
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ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

616 WATER	50 M. GAL.
616 CALCIUM CHLORIDE	5 TONS

DESIGNATED LOCAL DETOUR ROUTE

DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE AND RESTORATION OF THE LOCAL DETOUR ROUTE PAVEMENT(S):

404 BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	25 CU. YD.
407 TACK COAT	60 GAL.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE AND RESTORATION OF THE DESIGNATED DETOUR ROUTE PAVEMENT(S):

404 BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	25 CU. YD.
407 TACK COAT	60 GAL.

ALL TRAFFIC LANES ON S.R. 60 SHALL BE OPEN TO TRAFFIC AT ALL TIMES EXCEPT FOR PAVEMENT CONSTRUCTION ON S.R. 208 (NINTH ST.) ADJACENT TO S.R. 60. DURING THIS PERIOD THE WORK SHALL CONFORM TO THE POLICY ON "DROPOFFS IN WORK ZONES".

CONSTRUCTION SEQUENCE AND TRAFFIC MAINTENANCE

THE CONSTRUCTION SEQUENCE SHALL BE AS FOLLOWS ALONG NINTH STREET, ALL SIDE STREETS, ALLEYS, SIDEWALKS AND DRIVEWAYS.

1. CONSTRUCT ALL WATERLINE RELOCATIONS INDICATED ON PLANS INCLUDING SERVICE BRANCHES.

2. CONSTRUCT ELLIPTICAL PIPE ALONG CLAY STREET FROM STATION 42+30 TO STATION 49+68.

3. DETOUR TRAFFIC AS SHOWN ON SHEET 2. MAINTAIN LOCAL TRAFFIC ONLY TO RESIDENCES AND BUSINESSES ALONG NINTH STREET.

4. CONSTRUCT PROPOSED STORM SEWER ALONG SOUTH SIDE OF NINTH STREET, MAINTAINING ACCESS TO ALL DRIVEWAYS, EXCEPT DURING CONSTRUCTION ACROSS DRIVEWAYS.

5. AFTER STORM SEWER IS CONSTRUCTED, BEGIN ROADWAY CONSTRUCTION ON SOUTH SIDE OF NINTH STREET. WORK SHALL BE FROM STATION 0+00 TO STATION 13+08, TWENTY (20) FEET FROM PROPOSED SOUTH CURB TO THE NORTH INCLUDING ALL DRIVEWAYS, ALLEYS AND SIDE STREETS CONNECTING TO THIS PORTION OF NINTH STREET. ROADWAY SHALL BE CONSTRUCTED UP TO AND INCLUDING ITEM 448 INTERMEDIATE COURSE, TYPE II. WORK FROM STATION 12+40 TO 13+08 (MIDDLE OF FIRE TRUCK DRIVEWAY) SHALL BE DONE LAST AND WITHIN 10 WORKING DAYS. PROPERTY OWNERS ALONG SOUTH SIDE WILL BE PERMITTED TO PARK ON ONE LANE OF THE EXISTING PAVEMENT AND SHALL BE PROVIDED ACCESS TO THEIR DRIVEWAY. THE CONTRACTOR SHALL PROVIDE ACCESS TO EMERGENCY VEHICLES STATIONED AT THE FIRE DEPARTMENT AT THE SOUTHEAST CORNER OF NINTH AND CHESTNUT STREETS AT ALL TIMES.

6. COMPLETE REMAINING 20 FOOT WIDE SECTION FROM THE SOUTH CURB TO THE NORTH FROM STATION 13+08 TO 15+32.50 AND ALL DRIVEWAYS, ALLEYS AND SIDE STREETS CONNECTING TO NINTH STREET. CONTRACTOR SHALL PROVIDE ACCESS TO EMERGENCY VEHICLES STATIONED AT THE FIRE DEPARTMENT AT ALL TIMES. WORK SHALL BE COMPLETED UP TO AND INCLUDING ITEM 448 INTERMEDIATE COURSE, TYPE II

7. RELOCATE LOCAL TRAFFIC TO RECENTLY CONSTRUCTED ROADWAY. ONE LANE OF LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

8. CONSTRUCT REMAINING PART OF NINTH STREET FROM STATION 0+00 TO STATION 15+32.50 AND ALL CONNECTING SIDE STREETS, ALLEYS AND DRIVEWAYS. WORK SHALL BE COMPLETED UP TO AND INCLUDING ITEM 448 INTERMEDIATE COURSE, TYPE II.

9. PLACE ITEM 448 SURFACE COURSE, TYPE I & ITEM 407 TACK COAT ALONG ENTIRE PROJECT AND COMPLETE ANY REMAINING PROJECT ITEMS. ACCESS SHALL BE PROVIDED TO EMERGENCY VEHICLES AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE VILLAGE FIRE AND POLICE CHIEF A MINIMUM OF 14 CALENDAR DAYS PRIOR TO IMPLEMENTING ANY WORK WHICH MAY DISTURB THE ACCESS OF EMERGENCY VEHICLES STATIONED AT THE VILLAGE HALL.

THE CONTRACTOR SHALL COMPLETE THE PORTION OF STEP 5 ABOVE FROM STATION 12+40 TO 13+08 IN 10 WORKING DAYS AND STEP 6 ABOVE IN 15 WORKING DAYS. IF THE TIME FRAME CANNOT BE SATISFIED THE CONTRACTOR SHALL BE ACCESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 OF THE CMS FOR EACH DAY THE WORK IS NOT COMPLETED

THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL SIGNS, LIGHTS, BARRICADES, PAVEMENT MARKINGS AND OTHER DEVICES AS REQUIRED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, FOR MAINTAINING LOCAL ACCESS DURING CONSTRUCTION.

THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL PRIOR TO IMPLEMENTATION OR PLACEMENT OF DEVICES FOR MAINTAINING LOCAL TRAFFIC. PLACEMENT OF DEVICES OR PROVISION FOR ADDITIONAL MEASURES DURING OPERATION MAY BE DIRECTED BY THE ENGINEER. PAYMENT FOR ALL THE ABOVE MENTIONED ITEMS TO MAINTAIN TRAFFIC DURING THE CONSTRUCTION SEQUENCE SHALL BE PAID FOR IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

TEMPORARY WORK ZONE MARKINGS AND SIGNS

SHOULD THE ENGINEER DETERMINE THAT ANY PORTION OF THE PROJECT SHOULD BE OPENED TO TRAFFIC PRIOR TO PLACEMENT OF FINAL PAVEMENT COURSES AND PERMANENT PAVEMENT MARKINGS AND SIGNS, TEMPORARY PAVEMENT MARKINGS AND SIGNS SHALL BE PROVIDED. THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

614 TEMPORARY CENTERLINE, CLASS I	0.28 MI.
614 TEMPORARY STOP LINES, CLASS I	121 L.F.
614 TEMPORARY CROSSWALK LINES, CLASS I	492 L.F.
614 TEMPORARY LANE LINE, CLASS I	0.04 MI.
614 WORK ZONE MARKING SIGN	10 EACH

STANDARD DRAWING MT-99.10, INCLUDED IN THE PLANS, PROVIDES NOTES GUIDING THE USE OF THESE ITEMS. ALL OF THESE ITEMS ARE FOR USE AS DIRECTED BY THE ENGINEER.

GENERAL NOTES AND TRAFFIC MAINTENANCE

MUS-208-0.00

GENERAL NOTES

ITEM SPECIAL -- MAILBOX SUPPORT SYSTEM, SINGLE

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4"x4" SQUARE OR 4-1/2" DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2" I.D., AND CONFORM TO AASHTO M 181.

HARDWARE (PLATES, SCREWS, BOLTS, ETC.) SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

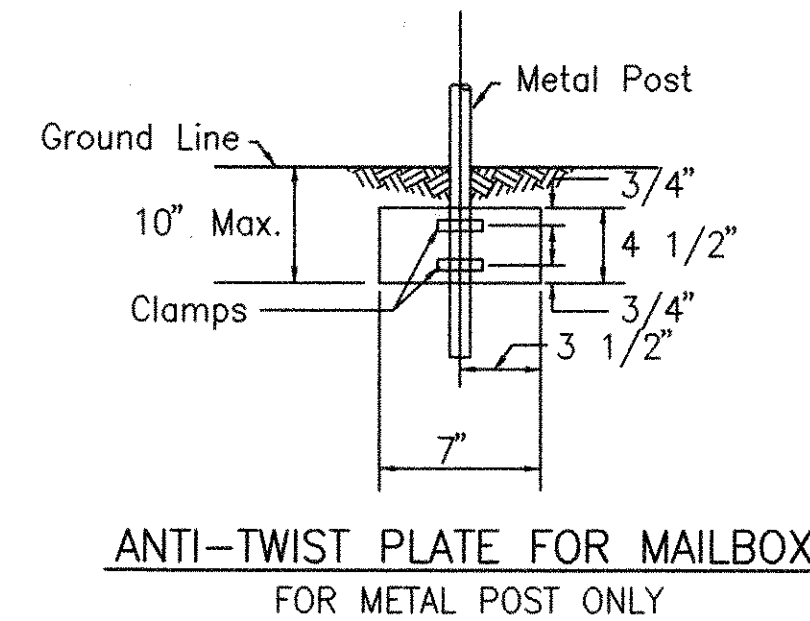
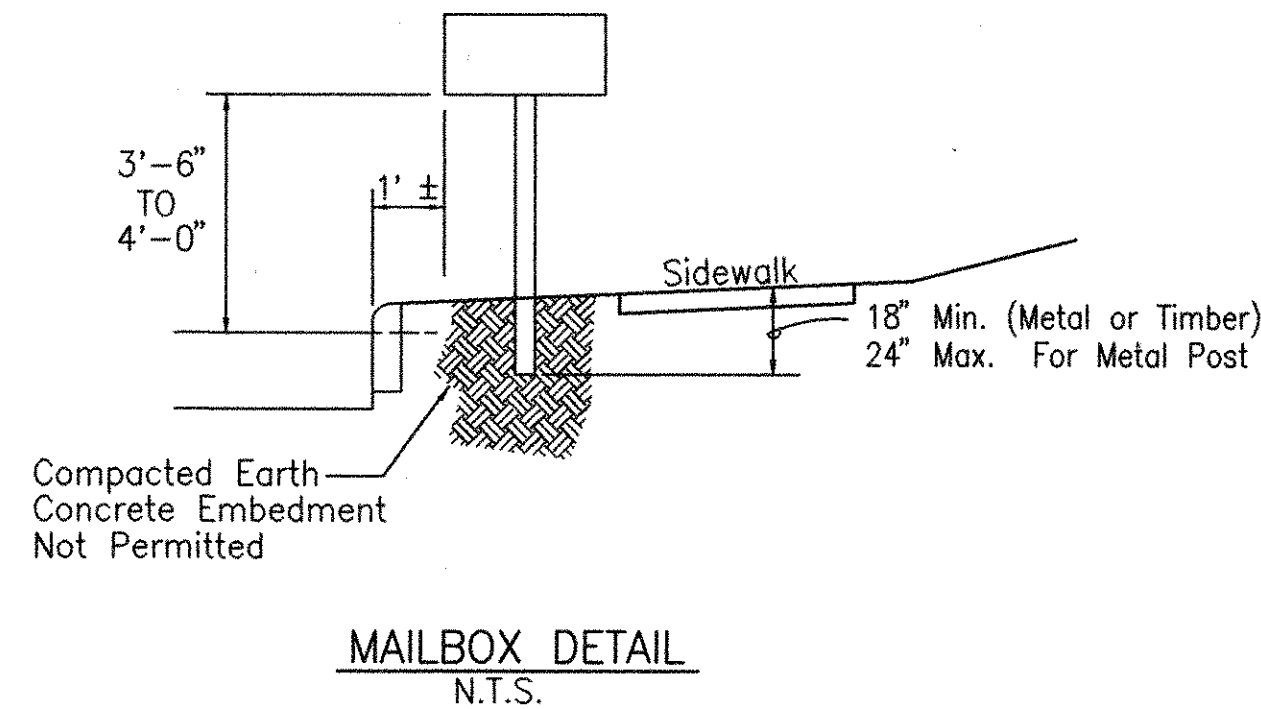
PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.12. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE.

THE FOLLOWING ARE THE LOCATIONS OF THE PROPOSED MAILBOX SUPPORTS:

STA. 1+40 RT.	S.R. 208.	1 (SINGLE)
STA. 5+58 RT.	S.R. 208.	1 (SINGLE)
STA. 7+84 LT.	S.R. 208.	1 (SINGLE)
STA. 8+24 RT.	S.R. 208.	1 (SINGLE)
STA. 8+78 RT.	S.R. 208.	1 (SINGLE)

ITEM SPECIAL MAILBOX SUPPORT SYSTEM, SINGLE 5 EACH
TOTAL TO GENERAL SUMMARY



ITEM 203 EXCAVATION OF UNSUITABLE MATERIAL ITEM 203 EMBANKMENT USING GRANULAR MATERIAL

UNSUITABLE MATERIAL

BASED ON A LIMITED NUMBER OF TEST BORINGS, SOFT SUBGRADE MAY BE ENCOUNTERED BETWEEN STA. 12+50 AND 15+32.50 WITH AN ESTIMATED DEPTH OF 2 FEET BELOW THE PROPOSED SUBGRADE. IT IS RECOMMENDED THAT THE SUBGRADE BE PROOF ROLLED IN ACCORDANCE WITH ITEM 203.14. UNSTABLE OR NON UNIFORM STABILITY OF THE SUBGRADE SHALL BE CORRECTED, TO ONE FOOT OUTSIDE CURB IN ACCORDANCE WITH ITEM 203.13 AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER:

203 EXCAVATION OF UNSUITABLE MATERIAL	950 C.Y.
203 EMBANKMENT USING GRANULAR MATERIAL	950 C.Y.
203 PROOF ROLLING	5 HOURS

ITEM 202 PIPE REMOVED FOR REUSE, OVER 24"

THE CONTRACTOR SHALL STORE THE EXISTING 30" PIPE ALONG WEST SIDE OF CLAY ST. BETWEEN STATIONS 46+27 & 47+92 WITHIN THE TEMPORARY RIGHT-OF-WAY FOR PICK UP BY THE VILLAGE OF DRESDEN.

SEEDING AND MULCHING OF LAWNS

IN ADDITION TO "AREAS IN FRONT OF RESIDENCES" REFERRED TO IN 659.09, THE SPECIAL PREPARATION SHALL BE EXTENDED TO ENCOMPASS ALL LAWNS AND/OR LAWN-LIKE AREAS AS DETERMINED BY THE ENGINEER.

EROSION CONTROL

ITEMS 601 AND 670 ARE PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE ANY OF THESE ITEMS AND TURF OF A STABLE NATURE SHALL NOT BE REMOVED IN ORDER TO PLACE 670. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES OF THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. IN ADDITION, THESE ITEMS SHALL MEET THE REQUIREMENT OF 108.04.

UNTREATED SEPTIC CONNECTIONS

THIS PLAN MAKES NO PROVISION FOR CONNECTING, NOR SHALL THE ENGINEER OR CONTRACTOR CONNECT, ANY UNTREATED SEPTIC DRAINAGE INTO THE HIGHWAY DRAINAGE SYSTEM. ANY PIPE CARRYING UNTREATED SEPTIC FLOW SHALL BE PLUGGED WITH CLASS C CONCRETE AT THE RIGHT-OF-WAY LINE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 202 ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE STATE, REPRESENTATIVES OF THE STATE AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE STATE.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE STATE.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 603 CONDUIT ITEMS.

ITEM 605 4" SHALLOW PIPE UNDERDRAIN, AS PER PLAN

THE UNDERDRAIN REQUIRED BENEATH THE CURB AS SHOWN IN THE DETAIL ON SHEET 3 SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REFERENCED DETAIL. ALL COSTS INCLUDING LABOR, MATERIAL AND EQUIPMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 605, 4" SHALLOW PIPE UNDERDRAIN, AS PER PLAN

ITEM 630 SIGNING, MISC.: REMOVAL OF GROUND MOUNTED CONCRETE STREET SIGN AND REERECTION, AS PER PLAN

THE GROUND MOUNTED CONCRETE STREET SIGN AT SOUTHWEST CORNER OF CHESTNUT & NINTH SHALL BE REMOVED AND REERECTED AS DIRECTED BY THE ENGINEER. THE REERECTION MAY INCLUDE A CONCRETE BASE. ALL COSTS INCLUDING LABOR, MATERIAL AND EQUIPMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 630 SIGNING, MISC.: REMOVAL OF GROUND MOUNTED CONCRETE STREET SIGN AND REERECTION, AS PER PLAN.

No. 2-2B, No. 3, No. 3A, No. 6, No. 7, No. 2-6 CATCH BASIN, AS PER PLAN A

THE REQUIREMENTS OF ITEM 604 SHALL GOVERN THE CONSTRUCTION OF THE CATCH BASIN, EXCEPT THAT THE CATCH BASIN SHALL BE PRECAST OR CAST IN PLACE CONCRETE. BRICK OR CONCRETE BLOCK WILL NOT BE PERMITTED. ALL CATCH BASINS SHALL HAVE BICYCLE SAFE GRATES.

No. 2-6 CATCH BASIN, AS PER PLAN B

THE REQUIREMENTS OF ITEM 604 SHALL GOVERN THE CONSTRUCTION OF THE CATCH BASIN AT STA. 42+50, 20' LT. CLAY STREET, EXCEPT THAT THE INSIDE DIMENSIONS OF THE BASE SHALL BE SEVEN (7) FEET BY SEVEN (7) FEET.

ITEM 407, TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECT BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.075 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

GENERAL SUMMARY

CALCULATED
US
CHECKED
M.L.S.

GENERAL SUMMARY

MUS-208-0.00

6
46

ITEM	SHEET NUMBER													ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
	5	5A	8	8A	9	10	11	12	13	14	34	35	41					
ROADWAY																		
201	LUMP		-		-	-	-	-	-	-	-	-	-	201	11000	Lump		Clearing and Grubbing
202					73	89		146	151					202	23000	459	Sq. Yd.	Pavement Removed
202					276	1591		2863	1216					202	30000	7882	Sq. Ft.	Walk Removed
202									102					202	32000	102	L.F.	Curb Removed
202						219		563	732			8	32	202	35100	1561	L.F.	Pipe Removed, 24" and Under
202					121	400		221				37	53	202	35200	832	L.F.	Pipe Removed, Over 24"
202													165	202	35600	165	L.F.	Pipe Removed For Reuse, Over 24"
202						7		6	8					202	58100	22	Each	Catch Basin Removed
203			6764											203	12000	6764	Cu. Yd.	Excavation not including Embankment Construction
203		950												203	13100	950	Cu. Yd.	Excavation Of Unsuitable Material
203			586											203	20000	586	Cu. Yd.	Embankment
203		950												203	21000	950	Cu. Yd.	Embankment Using Granular Material
203		5												203	45000	5	Hour	Proof Rolling
203			8954											203	50000	8954	Sq. Yd.	Subgrade Compaction
Special		5												SPEC.	69050100	5	Each	Mailbox Support System, Single See Sheet 5A
EROSION CONTROL																		
207	1700													207	10000	1700	Sq. Yd.	Temporary Seeding and Mulching
207	200													207	30000	200	L.F.	Filter Fabric Fence (see Proposal Notes)
207	80													207	70000	80	Each	Straw or Hay Bales
601					4								4	601	32200	8	Cu. Yd.	Rock Channel Protection, Type C with Filter
659			12064											659	10000	12064	Sq. Yd.	Seeding and Mulching
659	425													659	14000	425	Sq. Yd.	Repair Seeding and Mulching
659	0.10		1.09											659	20000	1.19	Ton	Commercial Fertilizer
659			5.43											659	30000	5.43	Ton	Agricultural Liming
659	26		26											659	35000	52	M. Gal.	Water
659	2100													659	40000	2100	M. Sq. Ft.	Mowing
670					213									670	40000	213	Sq. Yd.	Ditch Erosion Protection
DRAINAGE																		
602					1.1									602	20000	2.2	Cu. Yd.	Concrete Masonry
603									335					603	00100	335	L.F.	4" Conduit, Type B, 707.17 NON PERFORATED, ASTM 3034 SDR35, SS931 OR SS944
603	200													603	00400	200	L.F.	4" Conduit, Type E For Drainage Connection 707.19, PS46 MIN. 707.17, NON-PERFORATED, SS931 OR SS944
603	50													603	00406	50	L.F.	4" Conduit, Type F For Drainage Connection 707.19, PS46 MIN. 707.17, NON-PERFORATED, SS931 OR SS944
603	50													603	00900	50	L.F.	6" Conduit, Type B, FOR SANITARY SS945, SS942, SS931, 706.01, 706.02 OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12
603														603	01100	50	L.F.	6" Conduit, Type C, FOR SANITARY SS945, SS942, SS931, 706.01, 706.02 OR 706.08 WITH JOINTS AS PER 706.11 OR 706.12
603	200													603	01400	200	L.F.	6" Conduit, Type E For Drainage Connection 707.19, PS46 MIN. 707.17, NON-PERFORATED, SS931 OR SS944
603	50													603	01500	50	L.F.	6" Conduit, Type F For Drainage Connection 707.19, PS46 MIN. 707.17, NON-PERFORATED, SS931 OR SS944
603													16	603	01800	16	L.F.	8" Conduit, Type B
603														603	02000	8	L.F.	8" Conduit, Type C
603	50													603	02500	50	L.F.	8" Conduit, Type E For Drainage Connection 707.19, PS46 MIN. 707.17, NON-PERFORATED, SS931 OR SS944
603	50													603	02600	50	L.F.	8" Conduit, Type F For Drainage Connection 707.19, PS46 MIN. 707.17, NON-PERFORATED, SS931 OR SS944
603														603	03100	8	L.F.	10" Conduit, Type B
603														603	04400	538	L.F.	12" Conduit, Type B
603														603	04600	209	L.F.	12" Conduit, Type C
603														603	05900	253	L.F.	15" Conduit, Type B
603														603	06100	92	L.F.	15" Conduit, Type C
603														603	07400	147	L.F.	18" Conduit, Type B
603														603	07600	12	L.F.	18" Conduit, Type C
603														603	08900	721	L.F.	21" Conduit, Type B
603														603	16600	8	L.F.	36" Conduit, Type C
603														603	21100	205	L.F.	48" Conduit, Type C
603					205									603	52702	8	L.F.	29"x 45" Conduit, Type B, 706.04 CL. HE-II
603					8									603	52902	200	L.F.	34"x 53" Conduit, Type B, 706.04 CL. HE-II
603														603	52904	418	L.F.	34"x 53" Conduit, Type C, 706.04 CL. HE-II
603														603	53002	120	L.F.	38"x 60" Conduit, Type B, 706.04 CL. HE-II
604														604	00401	11	Each	Catch Basin, No. 3, As Per Plan A See Sheet 5A
604														604	00801	4	Each	Catch Basin, No. 3A, As Per Plan A See Sheet 5A
604														604	02001	2	Each	Catch Basin, No. 6, As Per Plan A See Sheet 5A
604														604	02401	3	Each	Catch Basin, No. 7, As Per Plan A See Sheet 5A
604														604	04501	14	Each	Catch Basin, No. 2-2B, As Per Plan A See Sheet 5A
604														604	06101	2	Each	Catch Basin, No. 2-6, As Per Plan A See Sheet 5A
604														604	06101	1	Each	Catch Basin, NO 2-6, As Per Plan B See Sheet 5A
604					2									604	31500	8	Each	Manhole, No. 3
604														604	35500	5	Each	Manhole Reconstructed to Grade
605													152	605	05100	152	L.F.	4" Shallow Pipe Underdrain
605														605	05101	3102	L.F.	4" Shallow Pipe Underdrain, As Per Plan See Sheet 5A
605														605	05200	134	L.F.	4" Unclassified Pipe Underdrain
SPEC.					100									SPEC.	20270100	100	L.F.	Pipe Cleanout
PAVEMENT																		
301			928											301	10002	944	Cu. Yd.	Bituminous Aggregate Base, AC-20
304			2410											304	20000	2410	Cu. Yd.	Aggregate Base
404			3											404	25000	8	Cu. Yd.	Asphalt Concrete, AC-20 (Driveways)
407			97											407	10000	97	Gal.	Tack Coat

GENERAL SUMMARY

Δ Project
 * 100% Village Of Dresden
 ** Betterment (74% Project, 26% Village Of Dresden)

CALCULATED
 JS
 CHECKED
 MLS

ITEM	SHEET NUMBER											ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	
	5	8	8A	9	10	11	12	13	14	41							
									Δ	*	**						
PAVEMENT (CONT.)																	
408		3494											408	10000	3494	Gal.	Bituminous Prime Coat
409		1											409	12000	1	Cu. Yd.	Seal Coat Cover Aggregate, No. 8
409		26											409	20000	26	Gal.	Seal Coat Bituminous Material
448		424											448	15000	424	Cu. Yd.	Asphalt Concrete Intermediate Course, Type 2, AC-20
448		348	1										448	16000	349	Cu. Yd.	Asphalt Concrete Surface Course, Type 1, AC-20
452			290										452	10000	290	Sq. Yd.	6" Plain Concrete Pavement
452			320										452	12000	320	Sq. Yd.	8" Plain Concrete Pavement
608				311	2752	2334	2584	1005					608	10000	8986	Sq. Ft.	4" Concrete Walk
608							5						608	41000	5	L.F.	Concrete Steps, Type B
608							2	2					608	50000	4	Each	Curb Ramp, Type 1
608				1	4	4	10						608	51000	19	Each	Curb Ramp, Type 2
609		236											609	18000	236	L.F.	Combination Curb and Gutter, Type 3
609		3151											609	26000	3151	L.F.	Curb, Type 6
WATER WORK																	
638									1059	160	491		638	01100	1710	L.F.	6" Water Main Polyvinyl Chloride Pipe And Fittings, AWWA Class 150
638									622				638	05300	622	L.F.	3/4" Polyethylene Service Branch
638									16				638	05500	16	L.F.	1 1/2" Polyethylene Service Branch
638									11				638	05600	11	L.F.	2" Polyethylene Service Branch
638									50				638	06200	50	L.F.	Polyethylene Encasement
638									3	7			638	07800	10	Each	6" Gate Valve and Valve Box
638									1				638	09290	1	Each	4"x4" Tapping Sleeve, Valve & Valve Box
638									3	1			638	10200	4	Each	6" Fire Hydrant
638									3				638	10700	3	Each	Fire Hydrant Removed and Disposed of
638									1				638	10900	1	Each	Service Box Adjusted To Grade
TRAFFIC CONTROL																	
630												216	630	03100	216	L.F.	Ground Mounted Support, No. 3 Post
630												288	630	04100	288	L.F.	Ground Mounted Support, No. 4 Post
630												115	630	80100	115	Sq. Ft.	Sign, Flat Sheet
630												13	630	84900	13	Each	Removal of Ground Mounted Sign and Disposal
630												13	630	85100	13	Each	Removal of Ground Mounted Sign and Reerection
630												2	630	87520	2	Each	Removal of Pole Mounted Sign and Reerection
630												1	630	97700	1	Each	Signing Misc.: Removal of Concrete Street Sign and Reerection, As Per Plan (See Sheet 5A)
642												0.02	644	00200	0.02	Mile	Lane Line
642												0.28	644	00300	0.28	Mile	Center Line
642												100	644	00400	100	L.F.	Channelizing Line
642												121	644	00500	121	L.F.	Stop Line
642												492	644	00600	492	L.F.	Crosswalk Line
642												932	644	01200	932	L.F.	Parking Lot Stall Marking
642												2	644	01300	2	Each	Lane Arrow
LANDSCAPING																	
657					10	9							657	10000	19	Sq. Yd.	Riprap For Tree Protection
666	10												666	10000	10	Each	Pruning Existing Trees, 3 to 8in. Diameter
666	10												666	10000	10	Each	Pruning Existing Trees, 8 to 16in. Diameter
666	10												666	10000	10	Each	Pruning Existing Trees, 16 to 24in. Diameter
MAINTENANCE OF TRAFFIC																	
404	55												404	35000	55	Cu. Yd.	Bituminous Concrete For Maintaining Traffic
407	720												407	10000	720	Gal.	Tack Coat
410	50												410	12000	50	Cu. Yd.	Traffic Compacted Surface, Type A or B
614	10												614	12460	10	Each	Work Zone Marking Sign
614	0.04												614	20000	0.04	Mile	Temporary Lane Line, Class I
614	0.28												614	21000	0.28	Mile	Temporary Center Line, Class I
614	121												614	26000	121	L.F.	Temporary Stop Line, Class I
614	492												614	27000	492	L.F.	Temporary Crosswalk Line, Class I
616	100												616	10000	100	M. Gal.	Water
616	6												616	20000	6	Ton	Calcium Chloride
614	LUMP												614	11000	LUMP		Maintaining Traffic
619													619	15010	LUMP		Field Office, Type B
SPECIAL													SPECIAL	61925010	LUMP		Computer Equipment for Type B or C Office
623													623	10000	LUMP		Construction Layout Stakes
624													624	10000	LUMP		Mobilization

GENERAL SUMMARY

MUS-208-0.00

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PAVEMENT SUB-SUMMARY

STATION * AVERAGE ** PLANIMETERED AREA	LENGTH	WIDTH	AREA	203	301	301	304	304	404	407	408	409	409	448	448	609	609
				SUBGRADE COMPACTION	BITUMINOUS AGGREGATE BASE, AC-20 (t=4")	BITUMINOUS AGGREGATE BASE, AC-20 (t=4 3/4")	AGGREGATE BASE, (t=10")	AGGREGATE BASE, (t=8")	ASPHALT CONCRETE AC-20 (DRIVEWAYS) (t=1 1/4")	TACK COAT (at 0.075 GAL/ Sq Yd.)	BITUMINOUS PRIME COAT (at 0.40 Gal/ Sq Yd.)	SEAL COAT BITUMINOUS MATERIAL (at 0.30 Gal/ Sq Yd.)	SEAL COAT COVER AGGREGATE No. 8 (at 0.008 C.Y./ Sq Yd.)	ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE II, AC-20 (t=1 3/4")	ASPHALT CONCRETE, SURFACE, COURSE, TYPE I, AC-20 (t=1 1/4")	CURB TYPE 6	COMBINATION CURB AND GUTTER TYPE 3
FROM TO	L.F.	L.F.	Sq. Ft.	Sq. Yd.	Cu. Yd.	Cu. Yd.	Cu. Yd.	Cu. Yd.	Cu. Yd.	Gal.	Gal.	Gal.	Cu. Yd.	Cu. Yd.	Cu. Yd.	L.F.	L.F.
ST. RT. 208																	
0+00	0+66.23		3917.84 **	435.32	49.32		120.92				174.13			21.16	15.12	28	
SHOULDER AREAS																	
		196.00	784.00					19.34			34.8	26.1	0.70				
0+66.23	2+33.38	167.15	7020.30	780.03	86.67		216.68				312.01			37.92	27.08	334	
2+33.38	2+93.38	60.00	2520.00	280.00	31.11		77.78				112.00			13.61	9.72	10	
2+93.38	7+88.08	494.70	20777.40	2308.60	256.51		619.06				923.44			112.22	80.16	989	
7+88.08	9+00.15	112.07	4706.94	522.99	58.11		145.28				209.20			25.42	18.16	104	
9+00.15	11+65.50	265.35	11144.70	1238.30	137.59		343.98				495.32			60.20	43.00	497	
11+65.50	12+44.50	79.00	3318.00	368.67	40.96		102.41				147.47			17.92	12.80		
12+44.50	15+07.50	263.00	11046.00	1227.33	136.67		340.92				490.93			59.66	42.62	457	
15+07.50	15+32.50		1318.25 **	146.47	16.27		40.69				58.59			7.12	5.09	79	
CASS ST.																	
9+46.00	9+79.00		756.57 **	84.06	9.34		23.35				33.63			4.09	2.92	83	
10+21.00	10+60.00		951.68 **	105.74	11.75		29.38				42.30			5.14	3.67	101	
CLAY ST.																	
9+44.00	9+79.00		968.25 **	107.58	11.95		29.89				43.03			5.23	3.74	99	
10+21.00	10+60.00		876.57 **	97.40	10.82		27.06				38.96			4.73	3.38	95	
ALLEY, STA. 10+33 S:																	
8+50.00	9+79.00	129.00	1784.42	198.27			36.58				79.31			9.64	6.88	31	
CHESTNUT ST.																	
8+80.00	9+79.00		2744.25 **	346.03	33.88		84.70				121.97			14.82	10.59	79	148
10+21.00	10+90.00		2024.25 **	249.36	24.99		62.48				89.97			10.93	7.81	79	88
9+16.00 LT	9+54.00 LT	38.00	456.00					11.26									
8+80.00 RT	9+54.00 RT	74.00	740.00					18.27									
10+46.00 LT	10+90.00 LT	44.00	506.00		7.42				1.95								
10+46.00 RT	10+75.00 RT	29.00	290.00		4.25				1.12								
ALLEY, STA. 13+78 S:																	
8+90.00	9+69.00	79.00	1145.50	127.28			35.35				50.91			6.19	4.42	24	
9+69.00	9+79.00	10.00	182.50	20.28			5.63				8.11			0.99	0.70	31	
ALLEY, STA. 13+81 N:																	
10+21.00	10+30.00	9.00	216.00	24.00			6.67				9.60			1.17	0.83		
10+30.00	10+44.00	14.00	196.00	21.78			6.05				8.71			1.06	0.76		
10+44.00	10+60.00	16.00	212.00	23.56			6.54				9.42			1.15	0.82	31	
CURB, TYPE 6																	
	3151.00	0.5	1575.50	175.06													
COMBINATION CURB & GUTTER, TYPE B																	
	236.00	2.5	590.00	65.56													
CLAY ST.																	
42+52.00 LT.	42+67.00 LT.	10.00	140.00				4.32							0.76	0.54		
43+48.00	43+53.00	5.00	75.00				2.31							0.41	0.29		
45+99.00 LT.	46+20.00 LT.	20.00	412.00				12.71							2.23	1.59		
42+00.00	49+44.00	744.00	11693.00							97.44					45.11		
TOTALS TO GENERAL SUMMARY:				8953.67	927.61	11.67	2380.74	29.53	3.07	97.44	3493.81	26.10	0.70	423.77	347.80	3151	236

LOCATION	203	203	659
	EXCAVATION NOT INCL. EMBANKMENT CONSTRUCTION	EMBANKMENT	SEEDING AND MULCHING
STATION TO STATION	Cu. Yd.	Cu. Yd.	Sq. Yd.
0+00 to 15+32.5, NINTH ST.	5,739	149	3,985
41+50 to 49+79, CLAY ST. (S)	135	379	3,926
10+21 to 10+60, CLAY ST. (N)	89	1	11
9+46 to 9+79 CASS ST.	55	0	25
10+21 to 10+60 CASS ST.	49	2	36
2+05 to 4+50, S.R. 60 DITCH	239	53	849
8+66 to 9+79, CHESTNUT ST.	269	0	0
10+21 to 11+13, CHESTNUT ST.	189	2	5
Additional Seeding (see sheet 15)	0	0	3,227
TOTALS TO GENERAL SUMMARY:	6,764	586	12,064

ITEM 659 - WATER	
12,064 Sq. Yd. X $\frac{120 \text{ Gal.}}{1000 \text{ Sq. Ft.}}$ X $\frac{9 \text{ Sq. Ft.}}{1 \text{ Sq. Yd.}}$ X $\frac{1 \text{ M. Gal.}}{1000 \text{ Gal.}}$ X 2 Applications =	26.06
TOTALS TO GENERAL NOTES: 26 M. Gal.	

ITEM 659 - COMMERCIAL FERTILIZER	
12,064 Sq. Yd. X $\frac{20 \text{ Lbs.}}{1000 \text{ Sq. Ft.}}$ X $\frac{9 \text{ Sq. Ft.}}{1 \text{ Sq. Yd.}}$ X $\frac{1 \text{ Ton}}{2000 \text{ Lbs.}}$ =	1.09
TOTALS TO GENERAL SUMMARY: 1.09 Ton	

ITEM 659 - AGRICULTURAL LIMING	
12,064 Sq. Yd. X $\frac{100 \text{ Lbs.}}{1000 \text{ Sq. Ft.}}$ X $\frac{9 \text{ Sq. Ft.}}{1 \text{ Sq. Yd.}}$ X $\frac{1 \text{ Ton}}{2000 \text{ Lbs.}}$ =	5.43
TOTALS TO GENERAL SUMMARY: 5.43 Ton	

CALCULATED
J.S.S.
CHECKED
S.J.W.

SUB-SUMMARY

MUS-208-000

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PAVEMENT SUB-SUMMARY

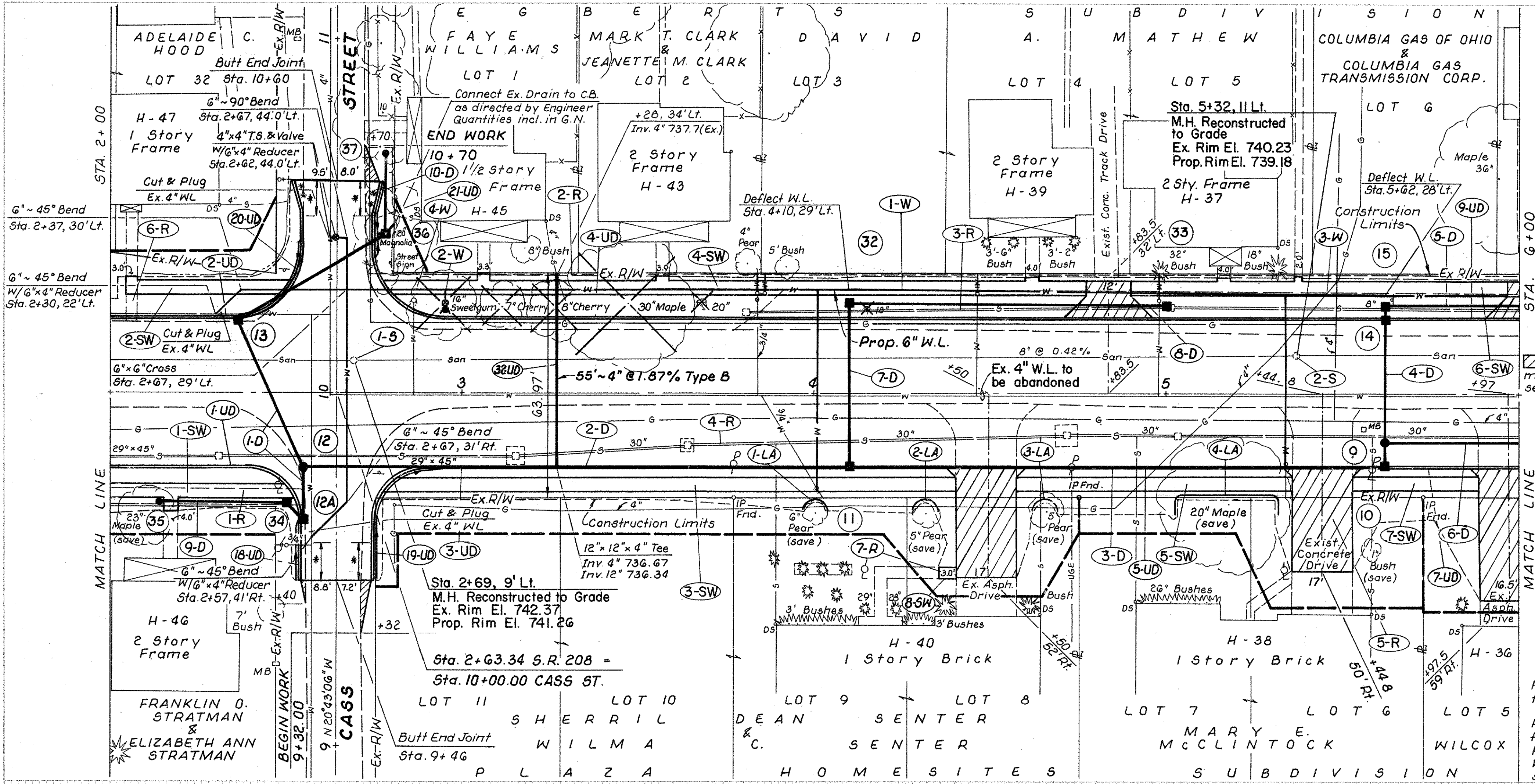
* AVERAGE		LENGTH	WIDTH	AREA	301	301	404	448	452	452											
STATION					BITUMINOUS AGGREGATE BASE, AC-20 (t = 4")	BITUMINOUS AGGREGATE BASE, AC-20 (t = 3 3/4")	ASPHALT CONCRETE, AC-20 (Driveways) (t = 1 1/4")	ASPHALT CONCRETE, SURFACE COURSE, TYPE I, AC-20 (t = 2")	6" PLAIN CONCRETE PAVEMENT	8" PLAIN CONCRETE PAVEMENT											
FROM	TO	L.F.	L.F.	Sq. Ft.	Cu. Yd.	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.											
DRIVEWAYS																					
NINTH ST. (S.R. 208)																					
1+24.50	RT.	4.50	16.00 *	72.00					8.00												
		9.00	12.00	108.00					12.00												
4+50.00	RT.	2.50	19.50 *	48.75					5.42												
		4.00	17.00	68.00					7.56												
		24.00	17.00	408.00		4.72	1.57														
4+83.50	LT.	6.50	18.50 *	120.25					13.36												
		5.00	12.00	60.00					6.66												
5+44.80	RT.	2.50	20.00 *	50.00					5.56												
		26.00	17.00	442.00					49.11												
5+97.00	RT.	2.50	18.75 *	46.88					5.21												
		4.00	16.50	66.00					7.33												
		31.00	16.50	511.50		5.92	1.97														
6+02.10	LT.	6.50	18.50 *	120.25					13.36												
		4.00	12.00	48.00					5.33												
6+90.00	RT.	2.50	17.50 *	43.75					4.86												
		4.00	15.00	60.00					6.67												
		8.00	15.00	120.00		1.39	0.46														
8+08.30	RT.	2.50	14.50 *	36.25					4.03												
		4.00	12.00	48.00					5.33												
		9.50	12.00	114.00		1.32	0.44														
9+14.00	LT.	5.50	122.00 *	671.00						74.56											
		4.00	117.00	468.00						52.00											
10+09.50	LT.	10.00	29.00 *	290.00						32.22											
10+50.00	LT.	5.50	25.00 *	137.50					15.28												
		5.00	19.00	95.00					10.56												
13+07.00	RT.	5.50	32.75 *	180.13						20.01											
		14.50	27.50	398.75						44.31											
13+50.00	RT.	5.50	23.00 *	126.50						14.06											
		18.00	17.00	306.00						34.00											
14+81.00	RT.	11.30 *	39.00 *	440.70						48.97											
CHESTNUT ST.																					
9+00.50	LT.	12.50	31.50 *	393.75					43.75												
10+86.00	RT.	10.00	22.75 *	227.50					25.28												
ALLEY @ SR 208 STA 10+32.02																					
8+78.00	RT.	5.00	13.50 *	67.50			0.42														
CLAY ST.																					
44+76.50	LT.	10.00	20.00 *	200.00					22.22												
		9.00	13.00	117.00					13.00												
PAVEMENT TAPERS																					
CASS ST.																					
9+32	9+46 RT.	14.00	1.50 *	21.00	0.26			0.13													
9+40	9+46 LT.	6.00	0.60 *	3.60	0.04			0.22													
10+60	10+70 RT.	10.00	2.00 *	20.00	0.23			0.12													
CLAY ST. (S)																					
9+25	9+44 RT.	19.00	1.25 *	23.75	0.29			0.15													
9+25	9+44 LT.	19.00	1.25 *	23.75	0.29			0.15													
CLAY ST. (N)																					
10+60	10+70 RT.	10.00	0.50 *	5.00	0.06			0.03													
CHESTNUT ST.																					
8+56	8+66 LT.	10.00	1.00 *	10.00	0.12			0.06													
TOTALS TO GENERAL SUMMARY:					2.46	13.35	4.86	0.86	289.88	320.13											

CALCULATED
M.A.L.
CHECKED
M.L.S.

SUB-SUMMARY

MUS-208-0.00

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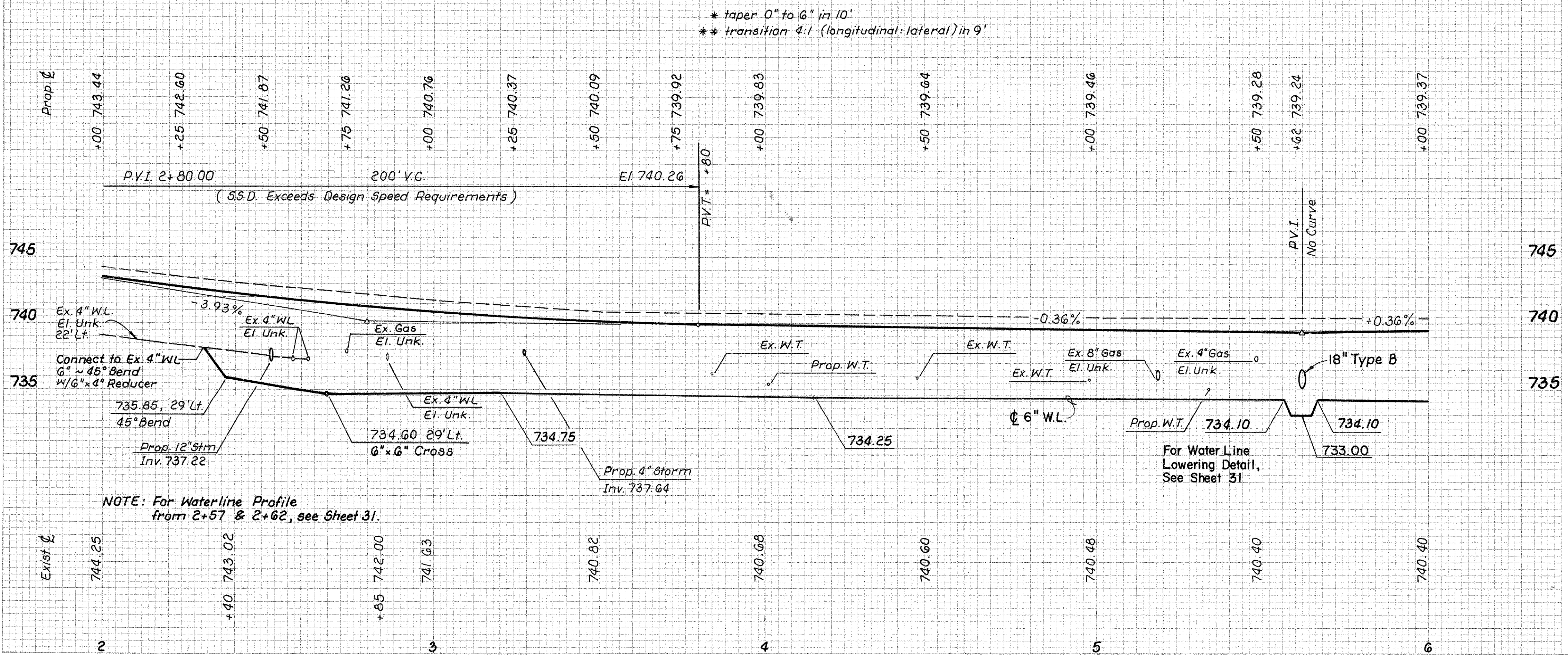
Driveway Pavement Replacement, see Sheet 3, 4 & 8 A.

NOTE:
For Water Work & Underdrain Quantities, See Sheet 14

For Intersection Details, see Sheet 27.

For Storm Sewer Profiles, see Sheet 30 & 31.

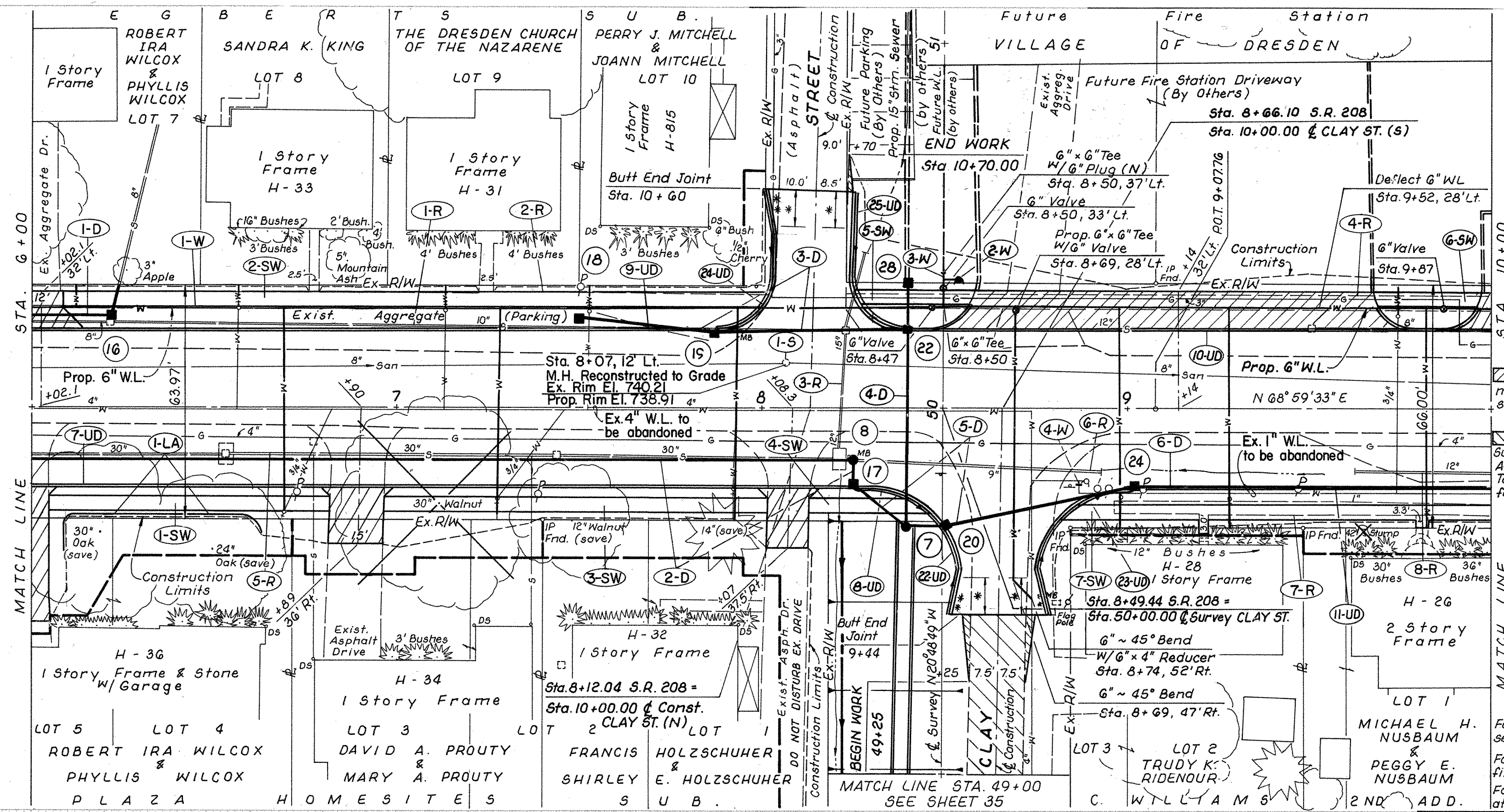
For Side Street Water Line Profiles, see Sheet 31.



NOTE: For Waterline Profile from 2+57 & 2+62, see Sheet 31.

ESTIMATED QUANTITIES

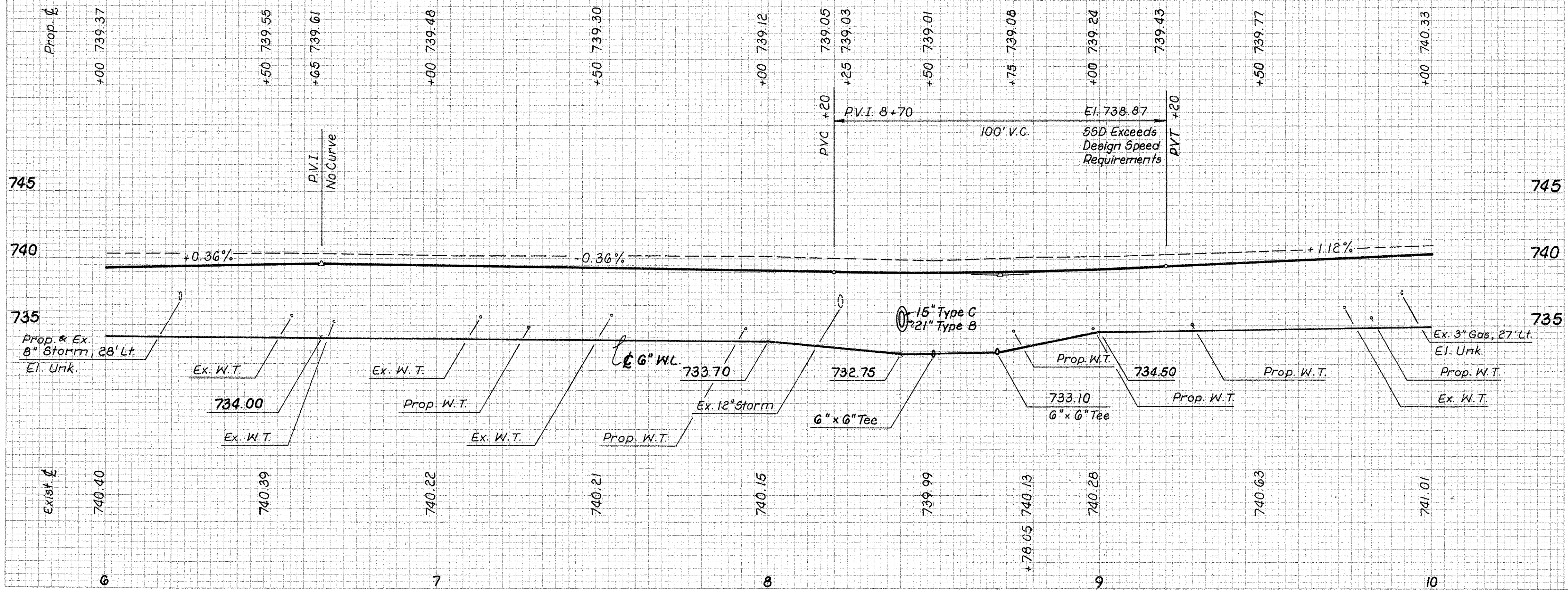
REF. NO.	STATION TO STATION	SIDE	ITEM	QUANTITY	UNIT
1-LA	4+00	Rt.	12" Conduit Type B	90	L.F.
2-LA	4+32	Rt.	12" Conduit Type B	42	L.F.
3-LA	4+66	Rt.	12" Conduit Type B	24	L.F.
4-LA	5+18	Rt.	12" Conduit Type B	110	L.F.
5-D	2+14 to 2+54	Lt.	15" Conduit Type B	4	L.F.
6-D	2+74 to 2+76	Lt.	15" Conduit Type B	38	L.F.
7-R	2+00 to 2+55	Rt.	15" Conduit Type B	152	L.F.
8-R	2+00 to 6+00	Rt.	15" Conduit Type B	7	L.F.
9-R	2+73 to 6+00	Rt.	15" Conduit Type B	35	L.F.
10-R	3+81 to 6+00	Rt.	15" Conduit Type B	38	L.F.
11-R	2+00 to 6+00	Rt.	15" Conduit Type B	38	L.F.
12-R	3+81 to 6+00	Rt.	15" Conduit Type B	38	L.F.
13-R	2+04 to 2+08	Lt.	15" Conduit Type B	152	L.F.
14-R	4+35 to 4+40	Rt.	15" Conduit Type B	7	L.F.
15-S	2+69	Lt.	MH, No. 3	1	Each
16-S	5+32	Lt.	MH, No. 3	1	Each
17-D	2+33 to 2+74	Lt./Rt.	CB No. 3, No. 34, as per plan A	1	Each
18-D	2+54 to 4+10	Rt.	CB No. 3, No. 34, as per plan A	1	Each
19-D	4+10 to 5+62	Rt.	CB No. 3, No. 34, as per plan A	1	Each
20-D	5+62 to 6+00	Rt.	CB No. 3, No. 34, as per plan A	1	Each
21-D	4+10 to 5+00	Lt.	CB No. 3, No. 34, as per plan A	1	Each
22-D	2+00 to 2+52	Rt.	CB No. 3, No. 34, as per plan A	1	Each
23-SW	2+77 to 4+39	Rt.	Manhole to Grade	1	Each
24-SW	2+77 to 4+78	Lt.	Manhole to Grade	1	Each
25-SW	4+58 to 5+36	Rt.	Manhole to Grade	1	Each
26-SW	4+90 to 5+97	Lt.	Manhole to Grade	1	Each
27-SW	5+53 to 5+89	Rt.	Manhole to Grade	1	Each
28-SW	4+35 to 4+40	Rt.	Manhole to Grade	1	Each
29-SW	4+00	Rt.	Manhole to Grade	1	Each
30-SW	4+32	Rt.	Manhole to Grade	1	Each
31-SW	5+18	Rt.	Manhole to Grade	1	Each
32-D	2+14 to 2+76	Lt.	Walk Removed	220	S.F.
33-D	2+74 to 2+76	Lt.	Walk Removed	1308	S.F.
34-R	2+00 to 2+55	Rt.	Pavement Removed	48	S.Y.
35-R	2+00 to 6+00	Rt.	Pavement Removed	15	S.Y.
36-R	3+81 to 6+00	Rt.	Pavement Removed	89	S.Y.
37-R	2+00 to 6+00	Rt.	Pavement Removed	2	S.Y.
38-R	3+81 to 6+00	Rt.	Pavement Removed	5	S.Y.
39-R	2+04 to 2+08	Lt.	Pavement Removed	2	S.Y.
40-R	4+35 to 4+40	Rt.	Pavement Removed	5	S.Y.
41-S	2+69	Lt.	Catch Basin Removed	2	Each
42-S	5+32	Lt.	Catch Basin Removed	5	Each
43-D	2+33 to 2+74	Lt./Rt.	Pipe Removed Over 24"	400	L.F.
44-D	2+54 to 4+10	Rt.	Pipe Removed Over 24"	219	L.F.
45-D	4+10 to 5+62	Rt.	Pipe Removed Over 24"	400	L.F.
46-D	5+62 to 6+00	Rt.	Pipe Removed Over 24"	219	L.F.
47-D	4+10 to 5+00	Lt.	Pipe Removed Over 24"	400	L.F.
48-D	2+00 to 2+52	Rt.	Pipe Removed Over 24"	219	L.F.
49-SW	2+77 to 4+39	Rt.	Pipe Removed Over 24"	400	L.F.
50-SW	2+77 to 4+78	Lt.	Pipe Removed Over 24"	219	L.F.
51-SW	4+58 to 5+36	Rt.	Pipe Removed Over 24"	400	L.F.
52-SW	4+90 to 5+97	Lt.	Pipe Removed Over 24"	219	L.F.
53-SW	5+53 to 5+89	Rt.	Pipe Removed Over 24"	400	L.F.
54-SW	4+35 to 4+40	Rt.	Pipe Removed Over 24"	219	L.F.
TOTALS TO GENERAL SUMMARY				219	400



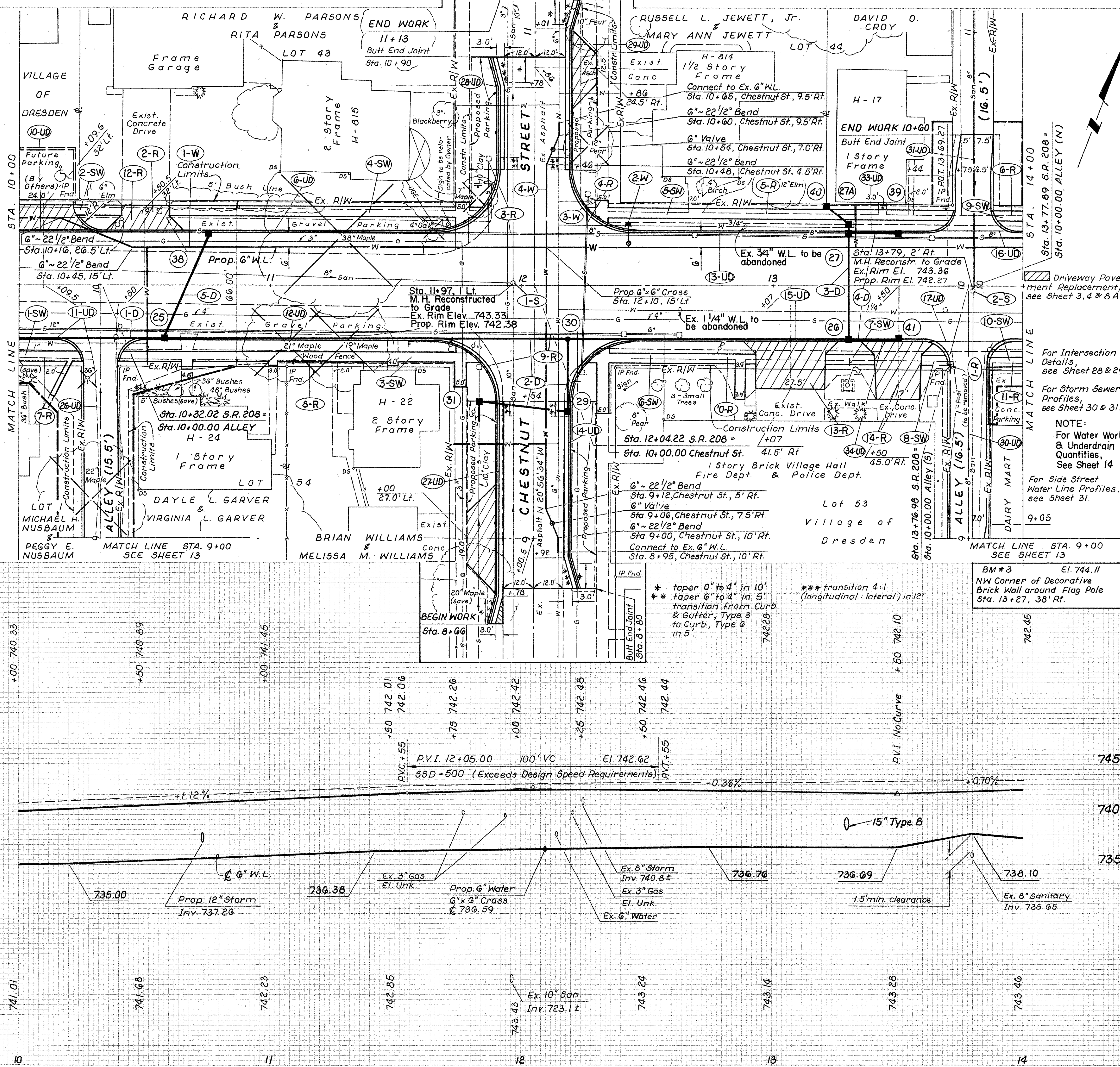
NOTE:
For Water Work & Underdrain Quantities, See Sheet 14
For Intersection Details, see Sheet 28.
For Storm Sewer Profiles, see Sheet 30 & 31.
For Water Line Profile at 8+74, see Sheet 31.

* taper 0" to 6" in 10'
** transition 4:1 (longitudinal; lateral) in 12'

BM #2 El. 739.54
SE Corner Porch @ Mobile Home # 815, Clay St.
Sta. 7+93, 73.5' Lt.



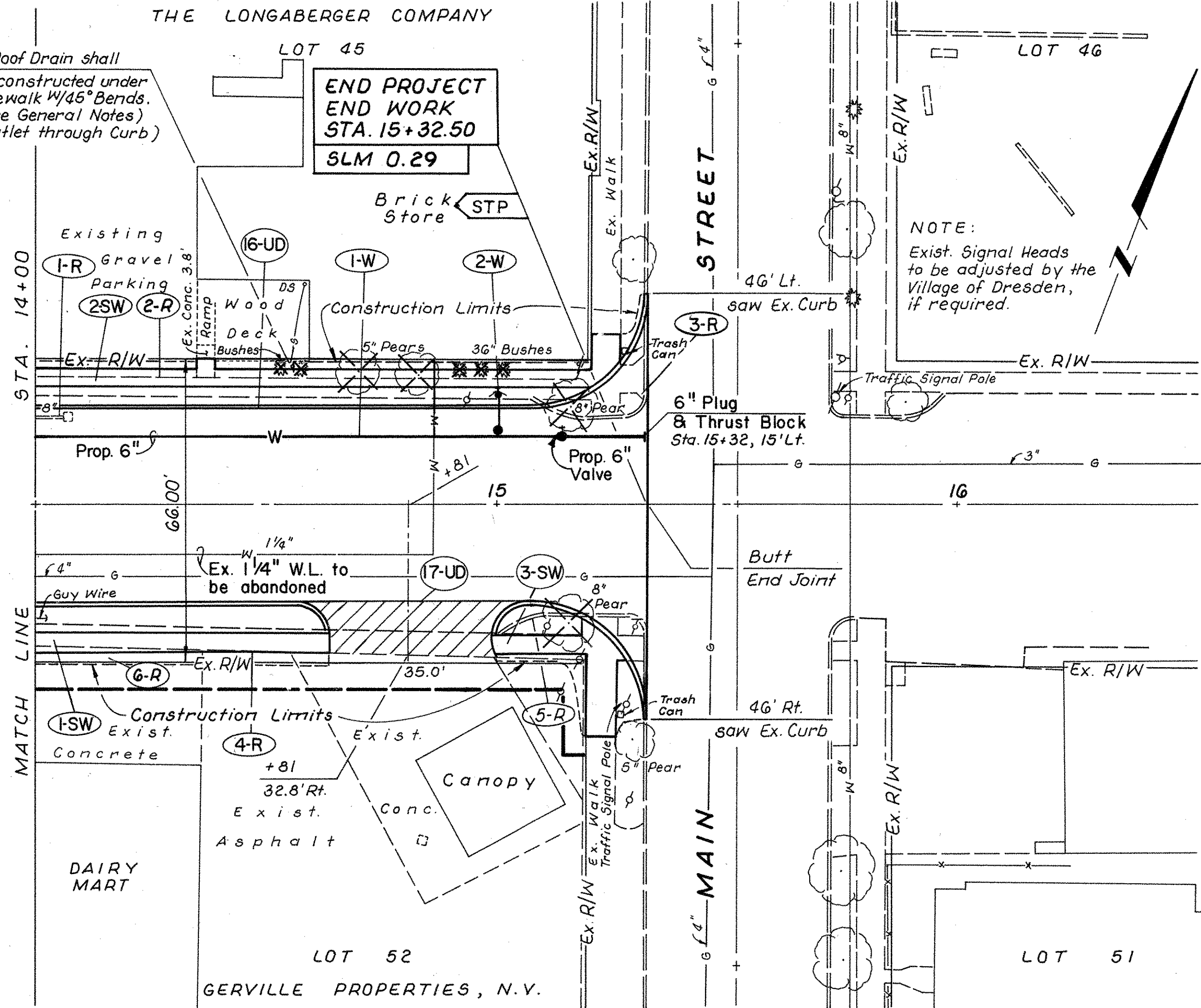
REF. NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES	TOTALS TO GENERAL SUMMARY
I-LA	6+09 to 6+62	Rt.		
I-R	6+00 to 10+00	Lt.		
2-R	6+00 to 8+00	Lt.		
3-R	8+22 to 10+00	Lt./Rt.		
4-R	8+23 to 10+00	Lt.		
5-R	6+00 to 8+21	Rt.		
6-R	8+21 to 8+93	Lt.		
7-R	8+93 to 10+00	Rt.		
8-R	9+63 to 10+00	Rt.		
1-S	8+07	Lt.		
1-D	6+00 to 6+22	Lt.		
2-D	6+00 to 8+25	Rt.		
3-D	7+50 to 8+40	Lt.		
4-D	8+40	Lt./Rt.		
5-D	8+25 to 9+02	Lt.		
6-D	9+02 to 10+00	Rt.		
1-SW	6+04.5 to 6+81	Rt.		
2-SW	6+08 to 8+00	Lt.		
3-SW	6+96 to 8+01	Rt.		
4-SW	8+13 to 8+44	Rt.		
5-SW	8+27 to 8+58	Lt.		
6-SW	9+68 to 9+96	Lt.		
7-SW	8+85 to 10+00	Rt.		
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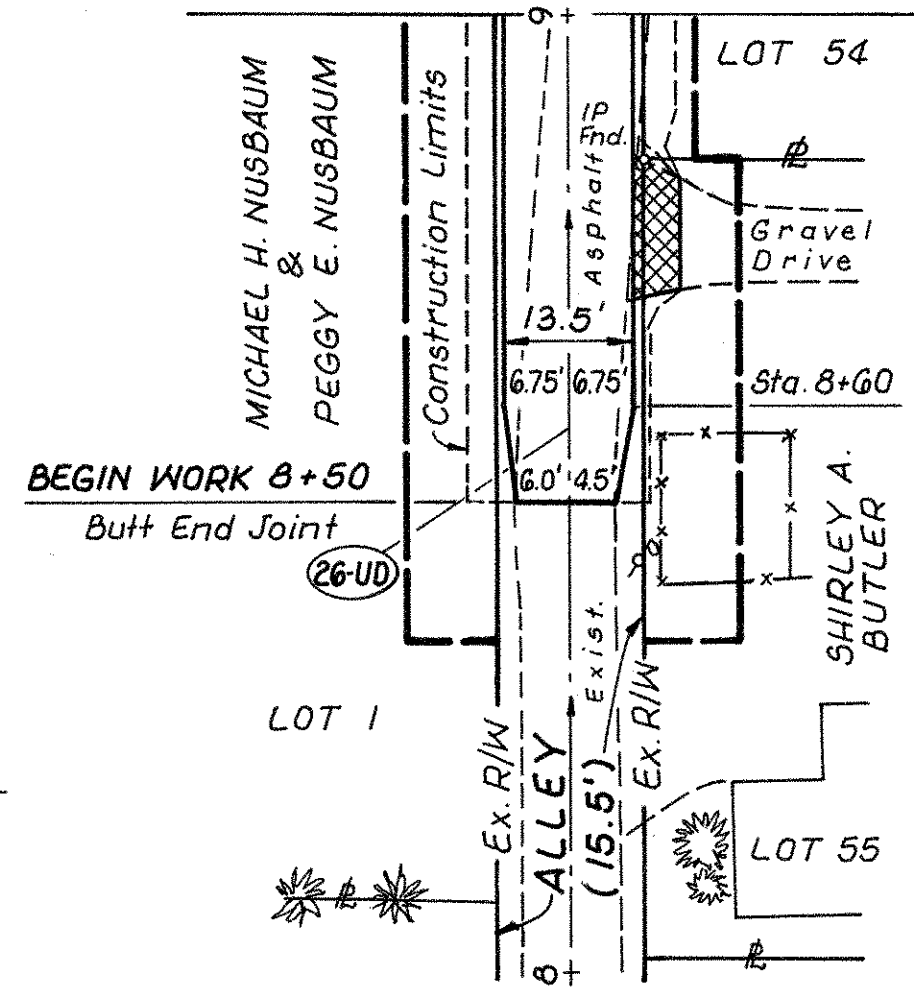
REF. NO.	STATION TO STATION	SIDE	ESTIMATED QUANTITIES
4-D	13+30 to 13+50	Rt.	18" Conduit Type B
1-R	13+50 to 14+00	Rt.	12" Conduit Type B
2-R	10+00 to 11+88	Lt.	10" Conduit Type B
3-R	10+00 to 14+00	Lt.	Catch Basin No. 7
4-R	12+25 to 13+71	Lt.	Catch Basin No. 6
5-R	12+30 to 14+00	Lt.	Catch Basin No. 2-2B
6-R	13+87 to 14+00	Lt.	Conc. Steps Type B
7-R	10+00 to 10+25	Rt.	Curb Ramp Type 1
8-R	10+40 to 11+88	Rt.	Curb Ramp Type 2
9-R	10+00 to 12+62	Rt.	4" Concrete Walk
10-R	12+30 to 13+69	Rt.	Manhole No. 3
11-R	13+85 to 14+00	Rt.	Manhole No. 3A
12-R	10+50	Rt.	Manhole No. 3B
13-R	13+07	Rt.	Manhole No. 3C
14-R	13+49	Rt.	Manhole No. 3D
1-S	11+97	Lt.	Manhole No. 3E
2-S	13+79	Rt.	Manhole No. 3F
1-D	10+00 to 10+58	Rt.	Manhole No. 3G
2-D	10+58 to 13+30	Rt.	Manhole No. 3H
3-D	13+21 to 13+30	Lt.	Manhole No. 3I
1-SW	10+00 to 10+22	Lt.	Manhole No. 3J
3-SW	10+40 to 11+82	Lt.	Manhole No. 3K
4-SW	10+60 to 11+82	Lt.	Manhole No. 3L
5-SW	12+29 to 13+72	Lt.	Manhole No. 3M
6-SW	12+29 to 12+94	Rt.	Manhole No. 3N
7-SW	13+21.5 to 13+41	Rt.	Manhole No. 3O
8-SW	13+59.5 to 13+70.5	Rt.	Manhole No. 3P
9-SW	13+89 to 14+00	Lt.	Manhole No. 3Q
10SW	13+87 to 14+00	Rt.	Manhole No. 3R
5-D	10+58 to 10+75	Lt./Rt.	Manhole No. 3S
TOTALS TO GENERAL SUMMARY			
		21"	58
		15"	42
		12"	40
		Manhole Reconst. to Grade	2
		Walk Removed	817
		Pavement Removed	36
		Catch Basin Removed	3
		Pipe Removed 24" and Under	400
		Manhole	70
		Concrete	262
		Storm Sewer	17
		Water	53
		Underdrain	40
		Water Work & Underdrain Quantities	2584

4" Roof Drain shall be constructed under sidewalk w/45° Bends. (See General Notes) (Outlet through Curb)

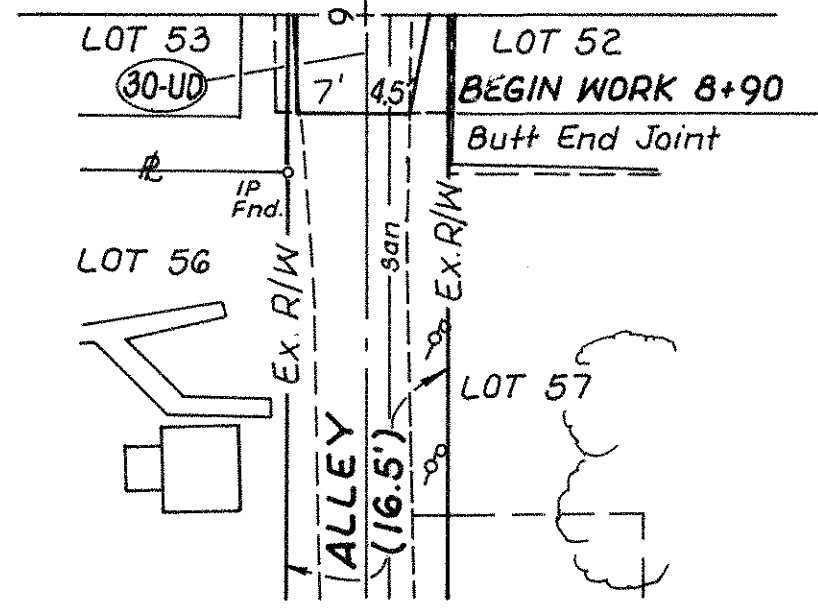
**END PROJECT
END WORK
STA. 15+32.50
SLM 0.29**



ALLEY @ Sta. 10+32.02 (S)
MATCH LINE STA. 9+00
SEE SHEET 12

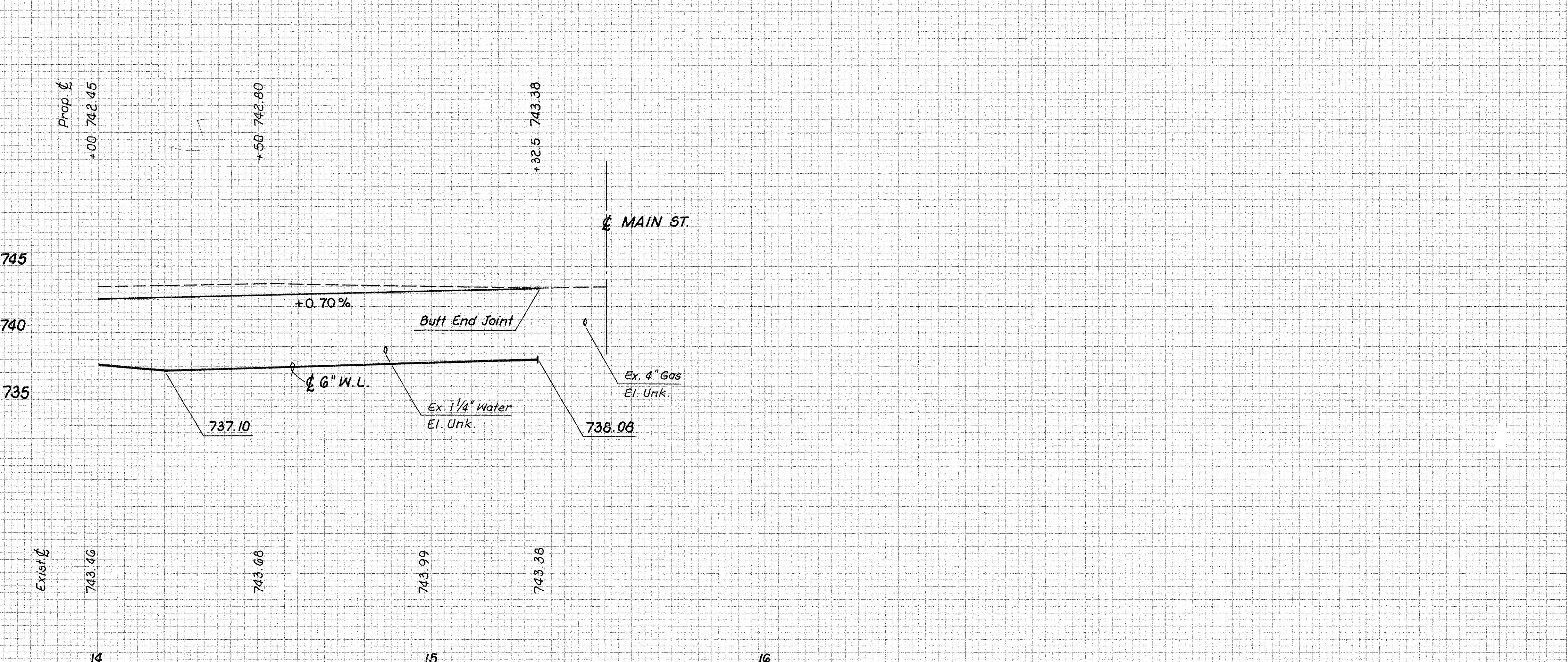


ALLEY @ Sta. 13+76.98 (S)
MATCH LINE STA. 9+00
SEE SHEET 12



1" to 4" Item 404

Driveway Pavement Replacement, see Sheet 3, 4 & 8A.



ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	ITEM	QUANTITY	UNIT	TOTALS TO GENERAL SUMMARY
1-R	14+00 to 14+07	Lt.	4" Curb Ramp Concrete Type 1		Each	2
2-R	14+00 to 15+20	Lt.	4" Concrete Walk	254	S.F.	1005
3-R	15+08 to 15+32	Lt.	Pavement Removed	530	S.F.	151
4-R	14+00 to 15+18	Rt.	Walk Removed	666	S.F.	1216
5-R	15+00 to 15+32	Rt.	Curb Removed	50	L.F.	102
6-R	14+00 to 14+44	Rt.	Catch Basin Removed	52	Each	1
1-SW	14+00 to 14+63.5	Rt.	Pipe Removed 24" and Under	7	L.F.	7
2-SW	14+00 to 15+20	Lt.				
3-SW	14+90 to 15+18	Rt.				
TOTALS TO GENERAL SUMMARY						

WATER LINE QUANTITIES

UNDERDRAIN QUANTITIES

REF. No.	STATION TO STATION	SIDE	SEE SHEET No.	638										SERVICE BOX ADJUSTED TO GRADE
				6" WATER MAIN POLYVINYL CHLORIDE PIPE & FITTINGS, AWWA CLASS 150	3/4" POLYETHYLENE SERVICE BRANCH	1 1/2" POLYETHYLENE SERVICE BRANCH	2" POLYETHYLENE SERVICE BRANCH	POLYETHYLENE ENCASEMENT	6" GATE VALVE AND VALVE BOX	4" X 4" TAPPING SLEEVE, VALVE & VALVE BOX	6" FIRE HYDRANT	FIRE HYDRANT REMOVED AND DISPOSED OF		
				L.F.	L.F.	L.F.	L.F.	L.F.	EACH	EACH	EACH	EACH	EACH	
1W	1+63	RT.	9										1	
1W	2+30 - 6+00	LT.	10	468	142					1				
2W	2+95	LT.	10	5					1					
3W	5+20 - 5+70	LT.	10					50						
4W	2+86	LT.	10									1		
1W	6+00 - 10+00	LT.&RT.	11	482	384				3					
2W	8+52	LT.	11	4						1				
3W	8+50	LT.	11	9					1					
4W	8+88	RT.	11									1		
1W	10+00 - 14+00	LT.	12	402	64									
2W	12+42	LT.	12	9					1					
3W	12+29	LT.	12							1			1	
4W	8+95 - 10+65 Chestnut Street	RT.	12	173	32				2					
1W	14+00 - 15+32	LT.	13	132		16			1					
2W	15+00	LT.	13	9					1					
1W	42+66	LT.	34				11							
1W	46+21	LT.	35	17										
TOTALS TO GENERAL SUMMARY:				1710	622	16	11	50	10	1	4	3	1	

REF. No.	STATION TO STATION	SIDE	SEE SHEET No.	603	605	605	605	BENDS & BRANCHES
				* 4" CONDUIT TYPE B	4" UNCLASSIFIED PIPE UNDERDRAIN	4" SHALLOW PIPE UNDERDRAIN	4" SHALLOW PIPE UNDERDRAIN, AS PER PLAN	
				L.F.	L.F.	L.F.	L.F.	EACH
SR 208								
1UD	0+38 - 2+00	LT.	9				162	
2UD	0+66 - 2+00	RT.	9				134	
1UD	2+00 - 2+53	RT.	10	10			52	
2UD	2+00 - 2+33	LT.	10	10			33	
3UD	2+74 - 4+10	RT.	10	10			133	
4UD	2+74 - 5+62	LT.	10	10			287	
5UD	4+12 - 5+62	RT.	10	10			140	
7UD	5+62 - 8+25	RT.	10&11	20			243	
8UD	8+25 - 8+51	RT.	11	10			17	
9UD	5+62 - 7+98	LT.	10&11	20			216	
10UD	8+40 - 10+75	LT.	11&12	10			221	
11UD	9+02 - 10+58	RT.	11&12	10			146	1
6UD	10+75 - 11+91	LT.	12	10			120	
12UD	10+58 - 11+90	RT.	12	10			138	
13UD	12+20 - 13+30	LT.	12	10			115	
15UD	12+20 - 13+30	RT.	12	10			120	
33UD	13+30 - 13+50	LT.	12	10			10	
34UD	13+30 - 13+50	RT.	12	10			10	
16UD	13+50 - 15+33	LT.	12&13	10			203	1
17UD	13+50 - 15+33	RT.	12&13	10			203	1
CASS STREET								
18UD	9+46 - 9+64	LT.	10	10			8	
19UD	9+46 - 9+64	RT.	10				18	
20UD	10+21 - 10+40	LT.	10	10	21			
21UD	10+42 - 10+60	RT.	10	10	8			1
CLAY STREET								
22UD	9+44 - 9+68	LT.	11	10			12	
23UD	9+44 - 9+79	RT.	11	10			42	
24UD	10+24 - 10+60	LT.	11	10			26	
25UD	10+21 - 10+60	RT.	11	10			34	
ALLEY @ SR 208 STA 10+32.02								
26UD	8+50 - 9+79	CL	12&13		33	96		
CHESTNUT STREET								
27UD	8+66 - 9+54	LT.	12				88	
14UD	8+80 - 9+50	RT.	12	10			60	
28UD	10+46 - 10+90	LT.	12				44	
29UD	10+46 - 11+13	RT.	12				67	
ALLEY @ SR 208 STA 13+76.98								
30UD	8+90 - 9+79	CL	12&13		33	56		
ALLEY @ SR 208 STA 13+77.89								
31UD	10+21 - 10+60	CL	12		39			
32UD	3+28 - 4+10	LT.	10	55				
TOTALS TO GENERAL SUMMARY:				335	134	152	3102	

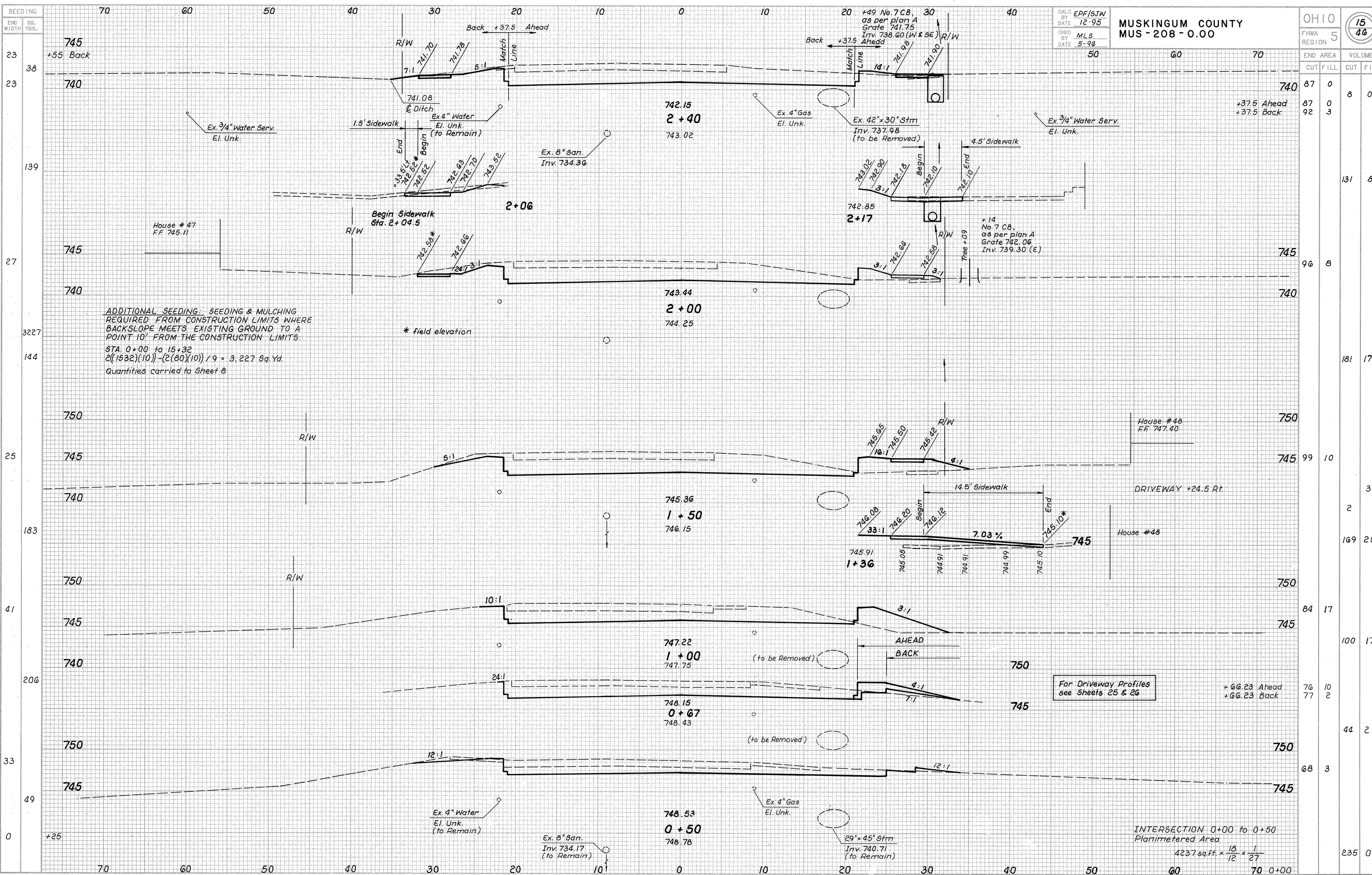
* 707.17 NON PERFORATED, ASTM 3034 SDR 35, SS931 OR SS944

CALCULATED
J.S.S.
CHECKED
S.L.W.

WATER LINE AND UNDERDRAIN QUANTITIES

MUS-208-0.00

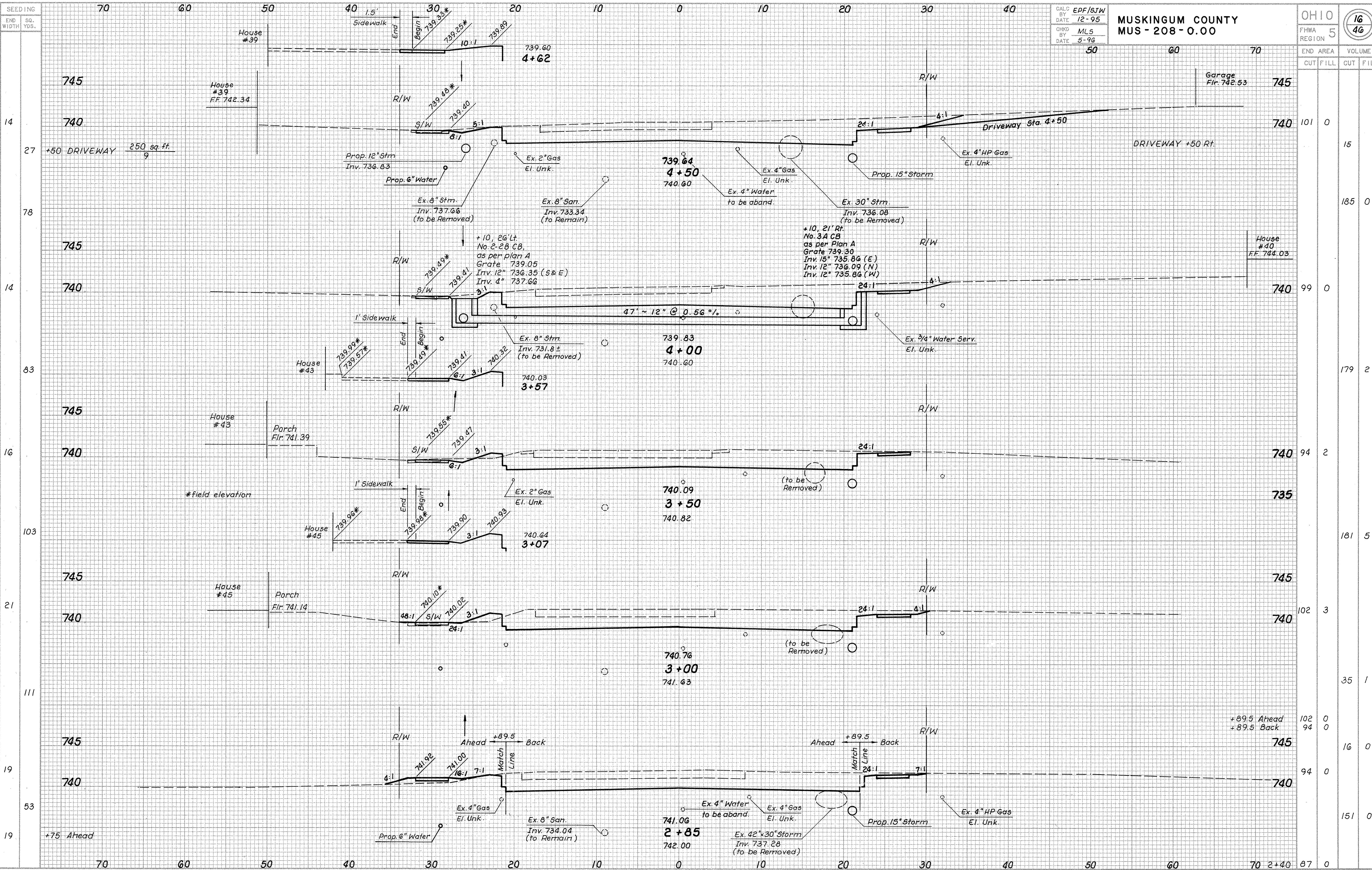
14
46



ADDITIONAL SEEDING: SEEDING & MULCHING
REQUIRED FROM CONSTRUCTION LIMITS WHERE
BACKSLOPE MEETS EXISTING GROUND TO A
POINT 10' FROM THE CONSTRUCTION LIMITS.
STA. 0+00 TO 15+32
 $2((1532)(10)) - (2(80)(10)) / 9 = 3,227$ Sq. Yd.
Quantities carried to Sheet 8

For Driveway Profiles
see Sheets 25 & 26

INTERSECTION 0+00 TO 0+50
Planimetered Area
 $4237 \text{ sq. ft.} \times \frac{18}{12} \times \frac{1}{27}$

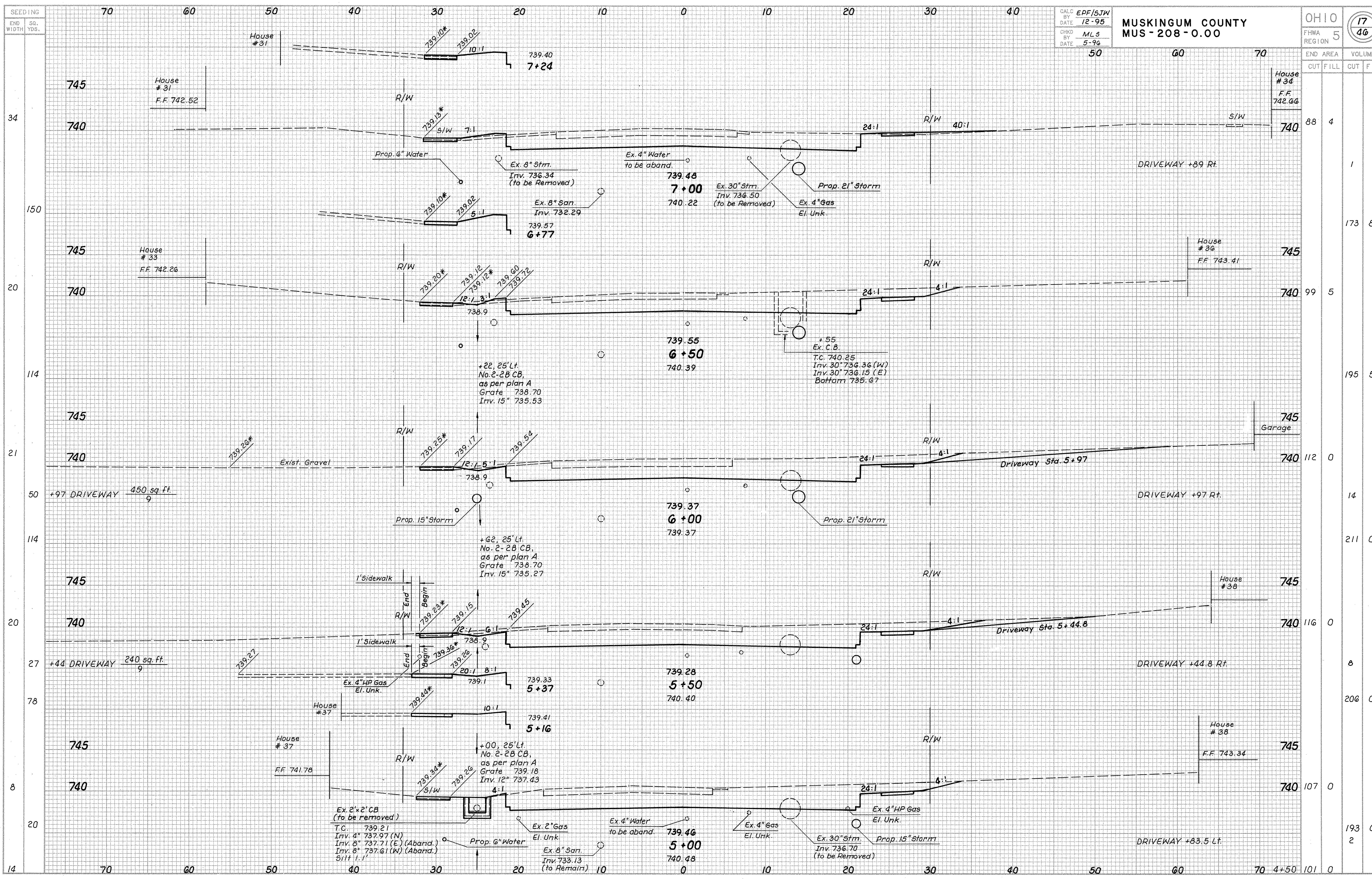


CALC. BY EPF/STW
 DATE 12-95
 CHKD. BY MLS
 DATE 5-96

MUSKINGUM COUNTY
MUS - 208 - 0.00

OHIO
 FHWA REGION 5
 16
 46

END AREA	VOLUME
CUT	FILL
101	0
15	0
185	0
99	0
179	2
94	2
181	5
102	3
35	1
102	0
94	0
16	0
94	0
151	0
87	0



SEEDING
END WIDTH
SQ. YDS.

CALC BY	EPF/SJW
DATE	12-95
CHKD BY	MLS
DATE	5-96

MUSKINGUM COUNTY
MUS-208-0.00

OHIO	17
REGION	46

END AREA	VOLUME
CUT	FILL
88	4
	1
	173
	8
99	5
	195
	5
112	0
	14
	211
	0
116	0
	8
	206
	0
107	0
	193
	0
	2
101	0

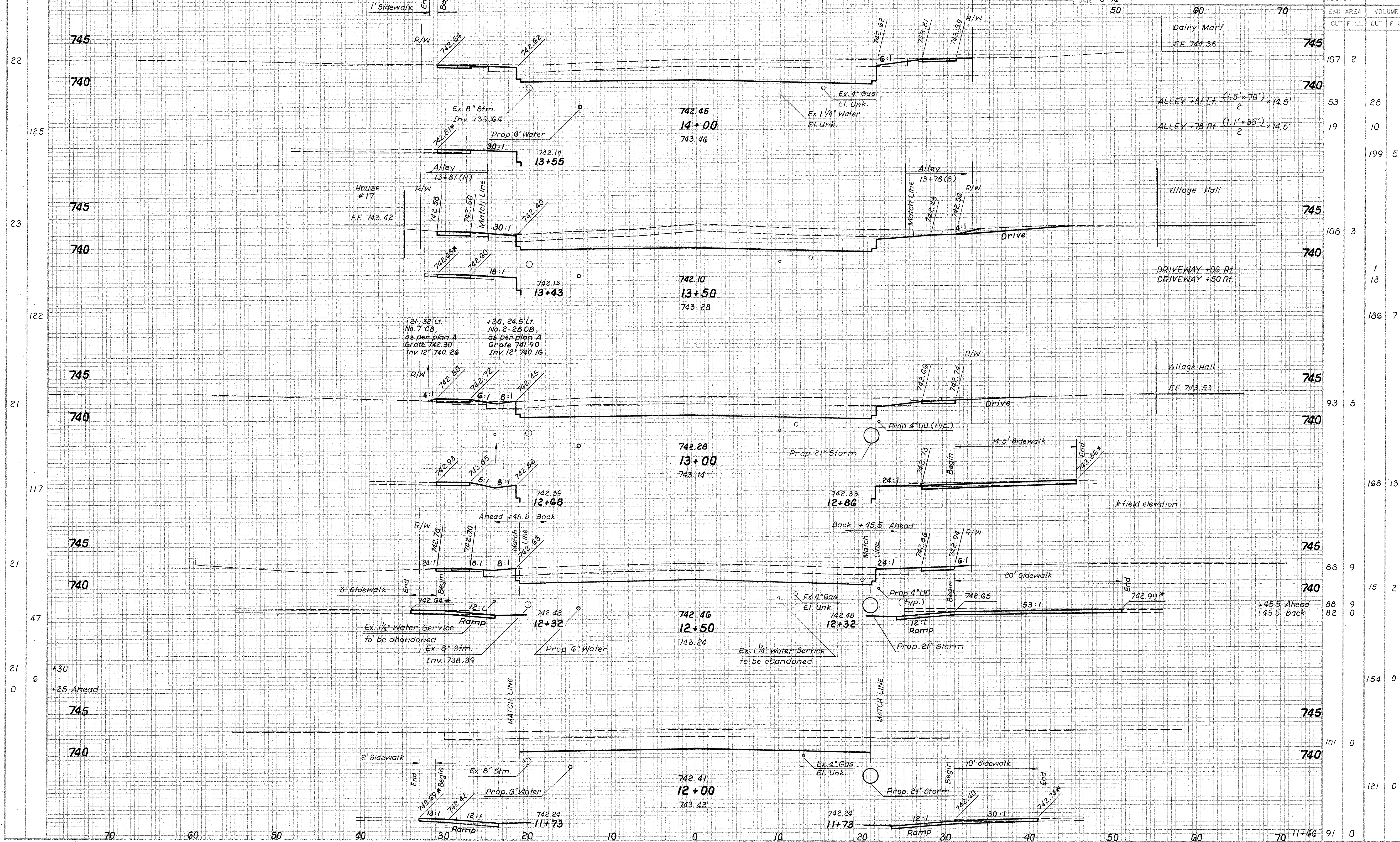
5+00 TO 7+00

SEEDING
END WIDTH SQ. YDS.

CALC BY EPF/SJW
DATE 12-95
CHKD BY MLS
DATE 5-96

MUSKINGUM COUNTY
MUS-208-0.00

OHIO
FHWA REGION 5
20
46



END AREA	VOLUME	
	CUT	FILL
107	2	
53	28	
19	10	
	199	5
108	3	
	1	13
		186
93	5	
		168
88	9	
	15	2
88	9	
82	0	
		154
101	0	
		121
91	0	

SEEDING
END SQ.
WIDTH YDS.

CALC BY EPF/SJW
DATE 12-95
CHKD BY M.L.S.
DATE 5-96

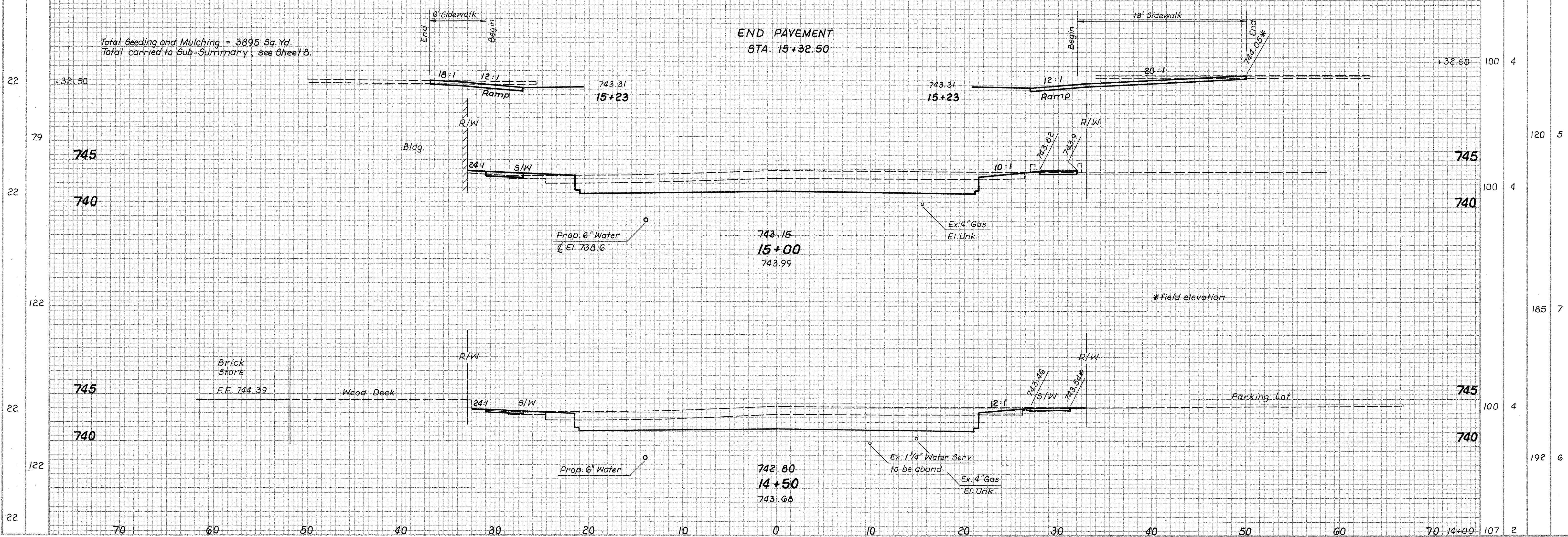
MUSKINGUM COUNTY
MUS - 208 - 0.00

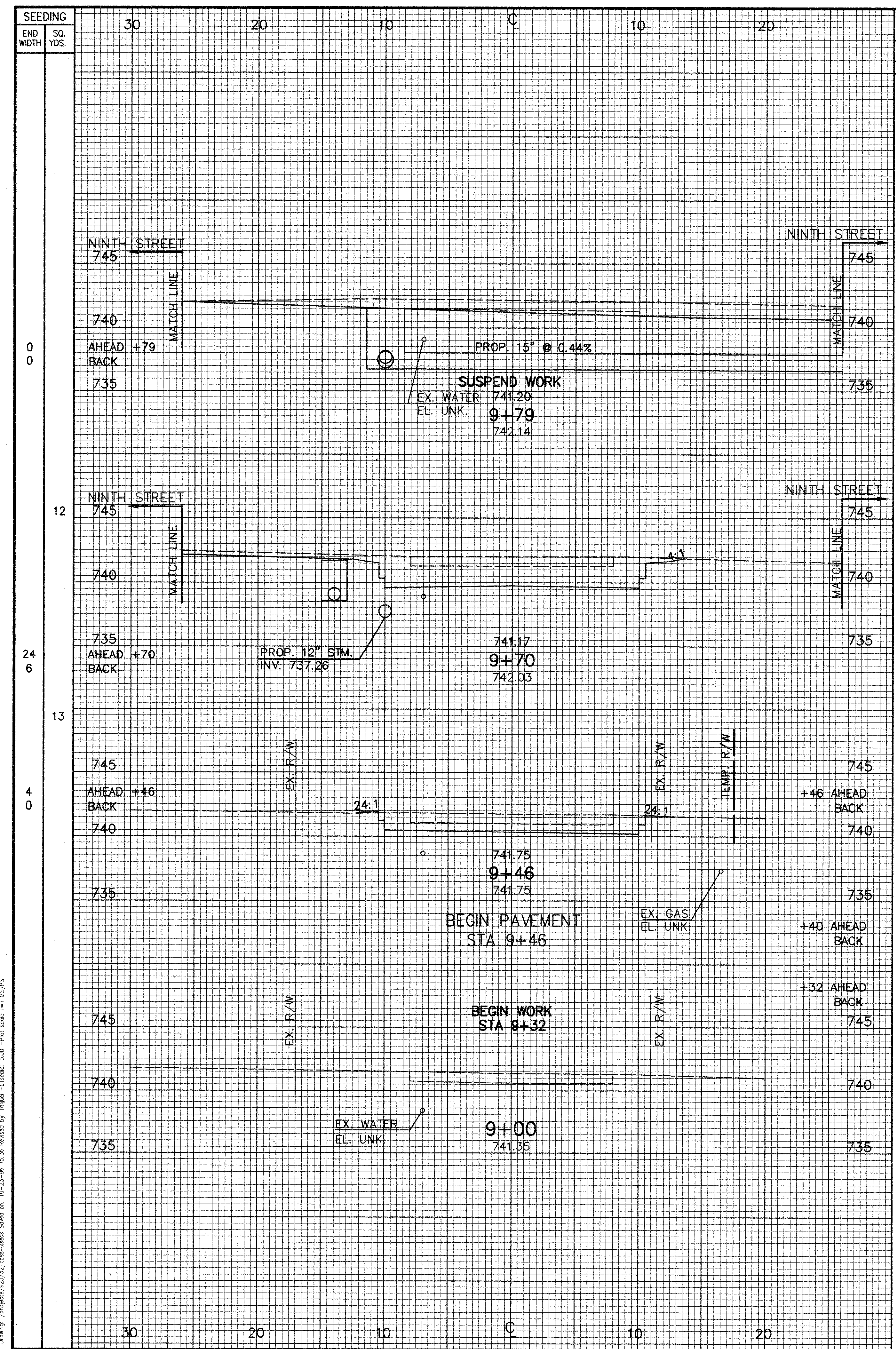
OHIO
FHWA REGION 5
21
46

END AREA VOLUME
CUT FILL CUT FILL

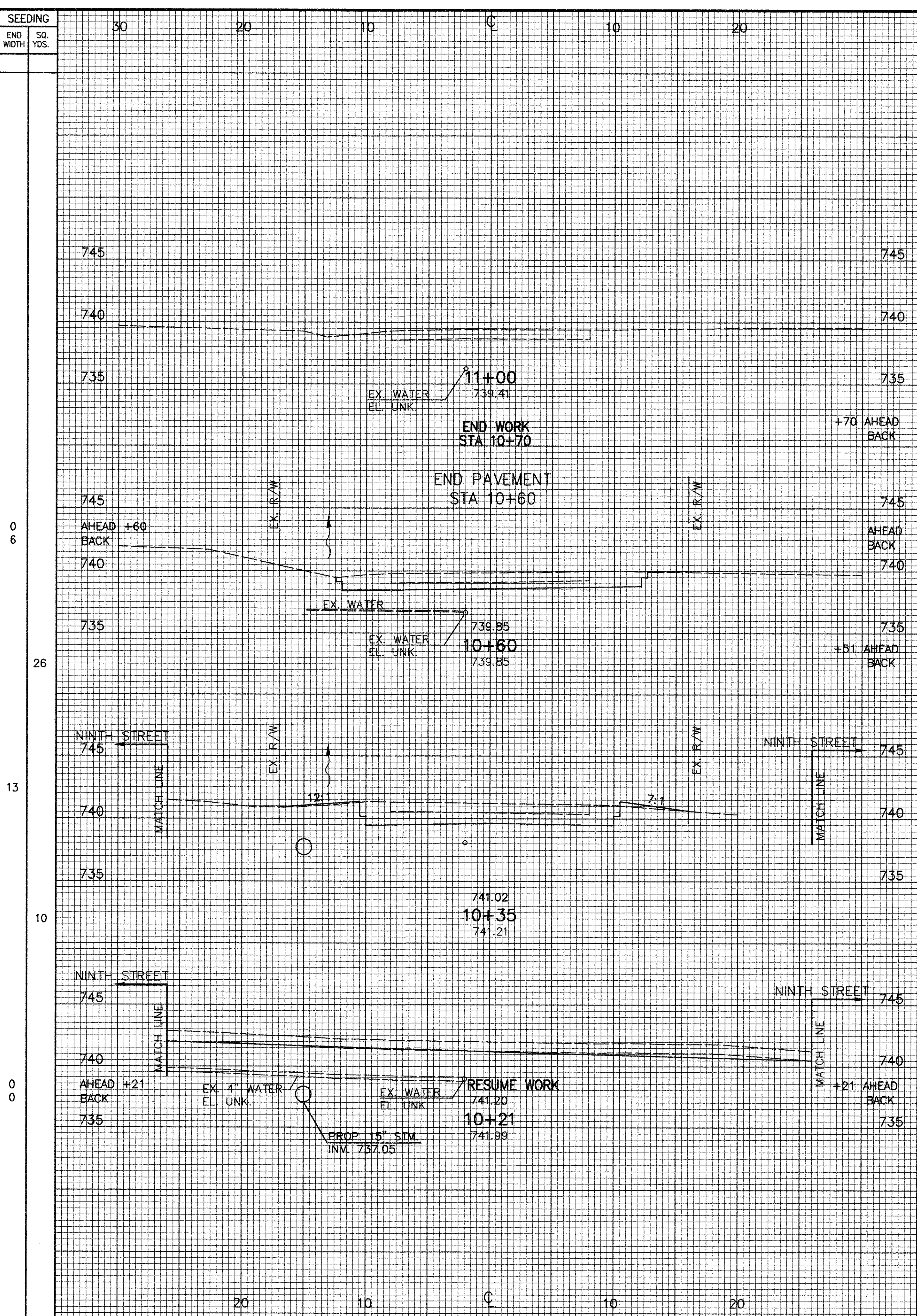
Total Seeding and Mulching = 3895 Sq. Yd.
Total carried to Sub-Summary, see Sheet 8.

Item 203 Excavation of Unsuitable Material.
Sta. 12+50 to 15+32.50
282.5' x 2.0' x 45' = 27 = 941.7 C.Y.
Total carried to General Notes Sheet 5A.





SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
0	0	49	0	17	0
12	0	0	6	0	0
24	6	55	0	0	0
13	0	0	26	37	0
4	0	29	2	0	0
		1	0	1	0
		0	0	0	0
		0	0	0	0
		0	0	0	0
		0	0	0	0



SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
0	0	0	0	0	0
12	0	0	0	0	0
24	6	27	1	27	1
13	0	0	0	0	0
4	0	35	2	18	1
		21	1	0	0
		44	0	0	0

CALCULATED MAL CHECKED M.L.S.
CASS STREET CROSS SECTIONS
STA. 9+00 TO STA. 11+00
MUS - 208-0-00
 23A
 46

SEEDING
END WIDTH
Sq. YDS.

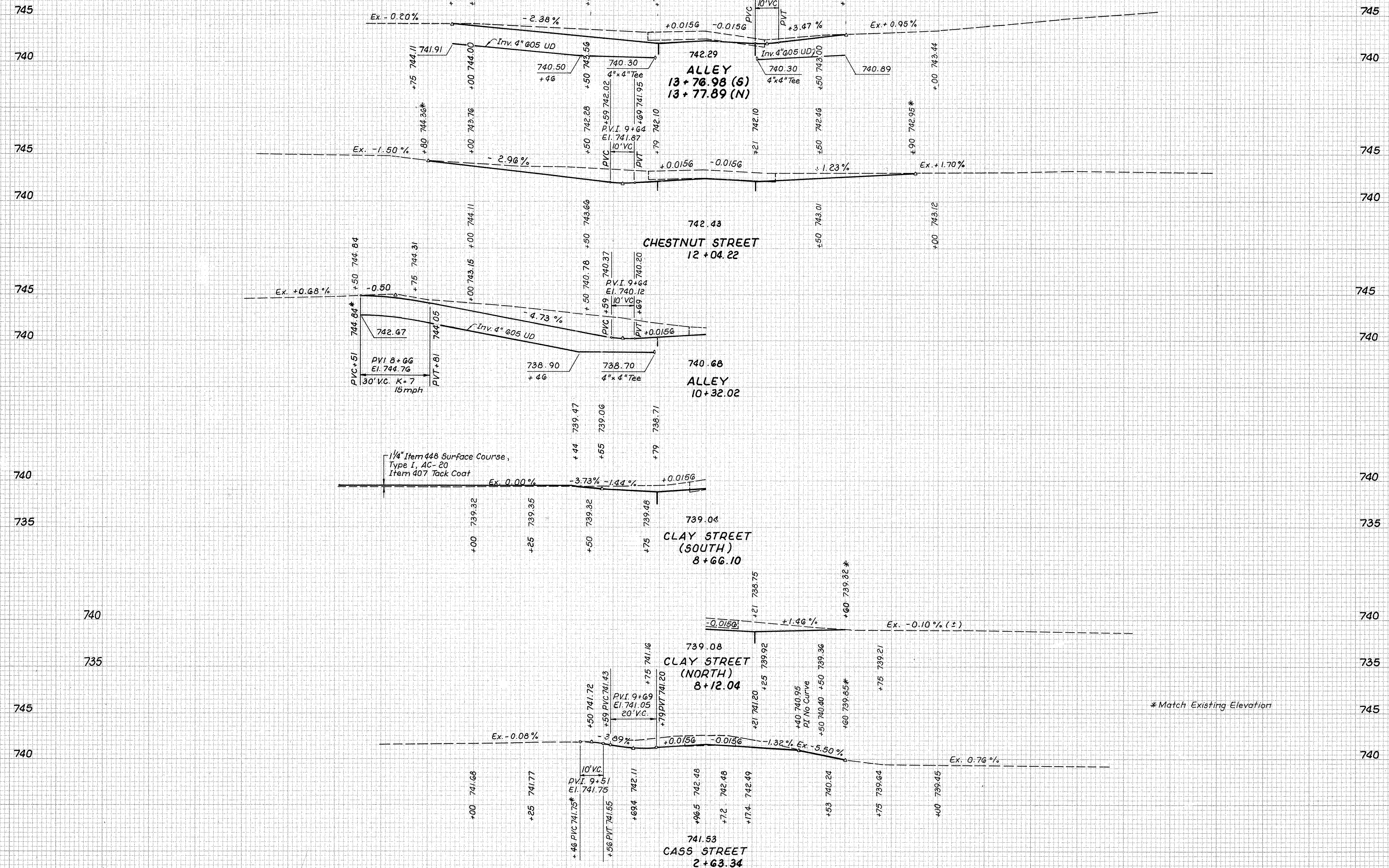
SOUTH 8+00 9+00 10+00 11+00 12+00 NORTH

CALC BY MAL
DATE 9-95
CHKD BY MLS
DATE 5-96

MUSKINGUM COUNTY
MUS - 208 - 0.00

OHIO
FHWA REGION 5
24
46

END AREA
CUT FILL CUT FILL



* Match Existing Elevation

SOUTH 8+00 9+00 10+00 11+00 12+00 NORTH

SIDE STREET PROFILES

SEEDING
END SQ.
WIDTH YDS.

70 60 50 40 30 20 10 0 10 20 30 40 50 60

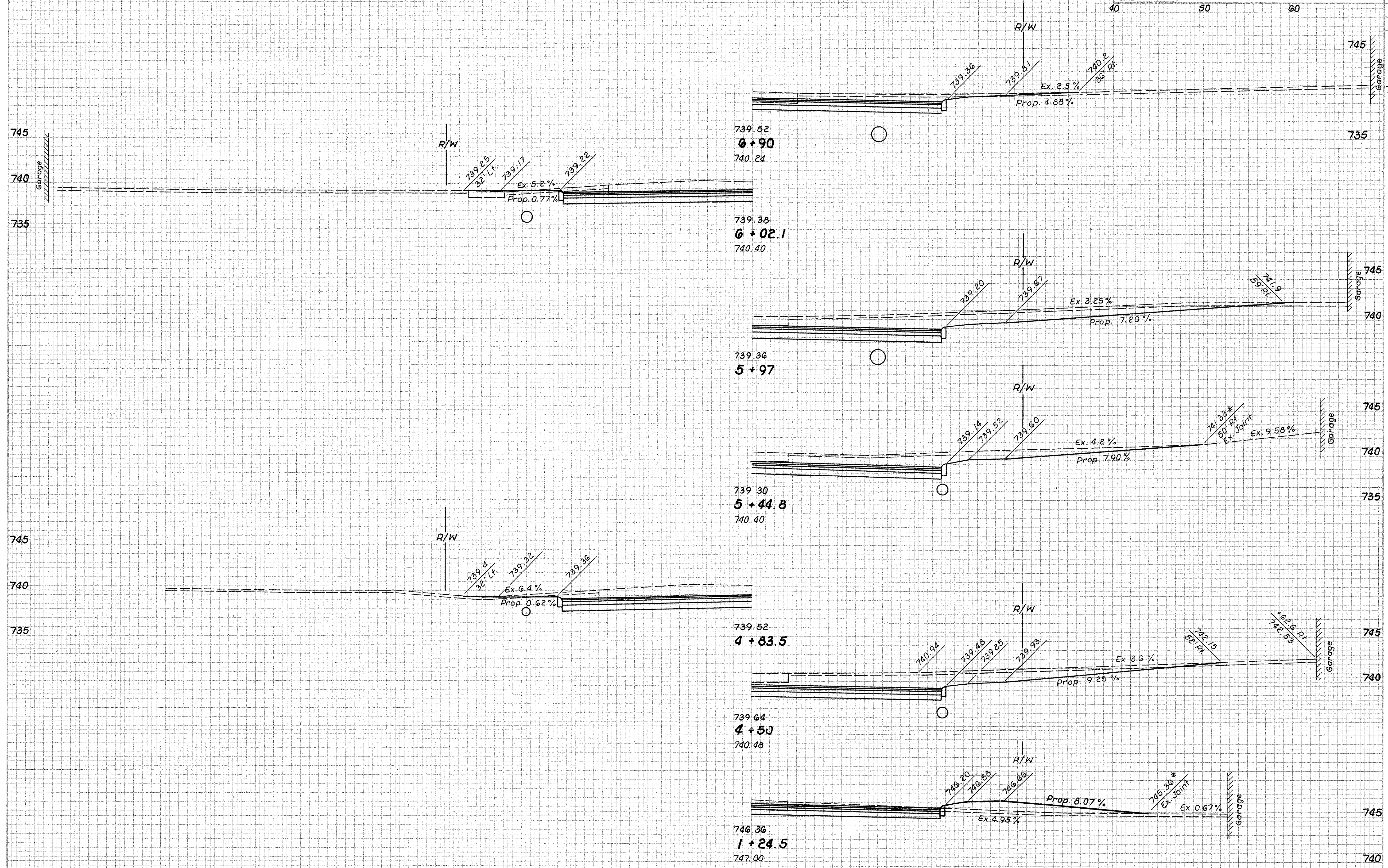
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DATE: 5-95
CHKD BY: MLS
DATE: 5-96

MUSKINGUM COUNTY
MUS - 208 - 0.00

OHIO
FHWA REGION 5
25
46

END AREA
CUT FILL

VOLUME
CUT FILL



DRIVEWAY PROFILES 1+24.5 TO 6+90

SEEDING
END
WIDTH
SQ.
YDS.

70 60 50 40 30 20 10 0 10 20 30 40 50 60

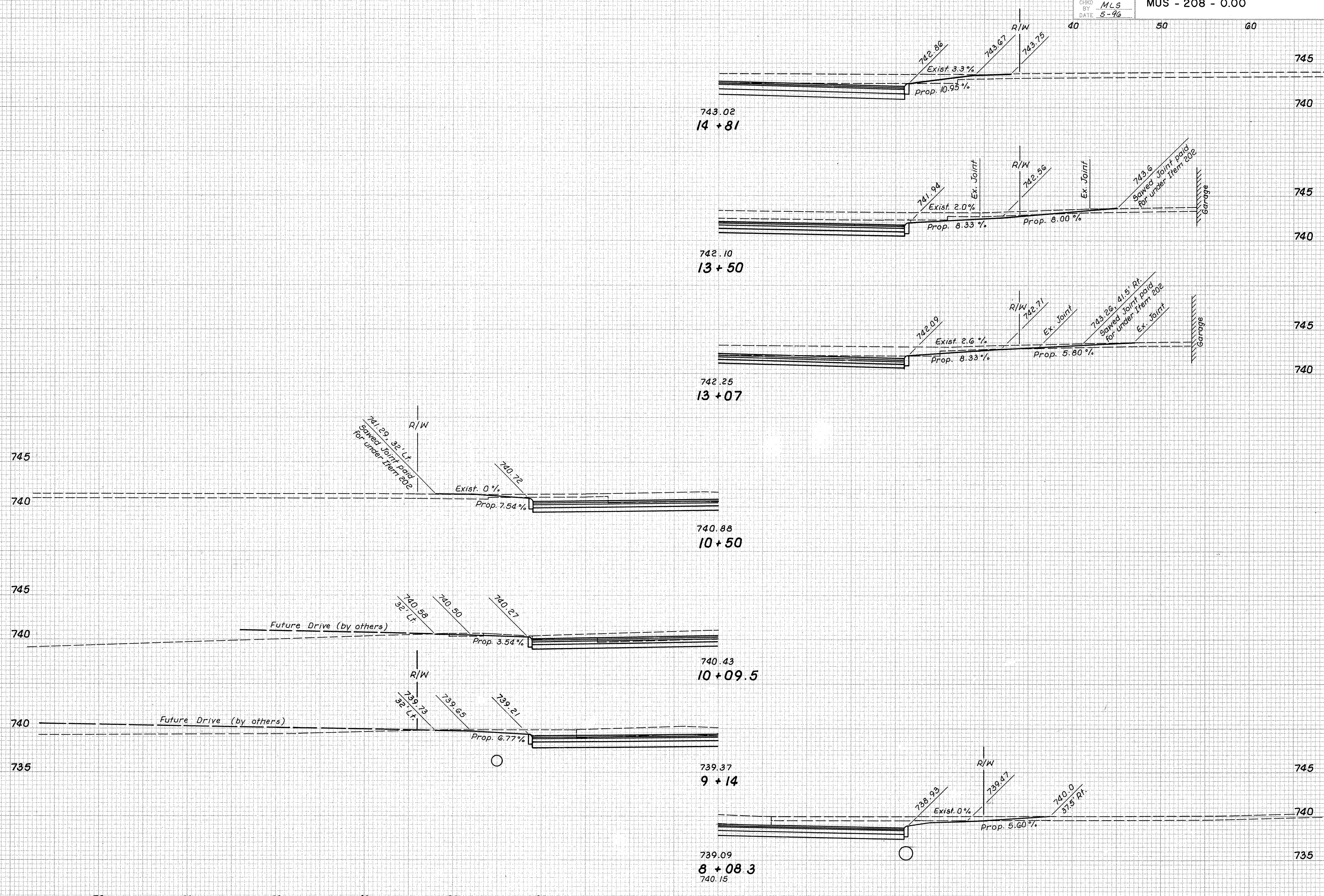
CALC BY SJW
DATE 5-95
CHKD BY MLS
DATE 5-96

MUSKINGUM COUNTY
MUS - 208 - 0.00

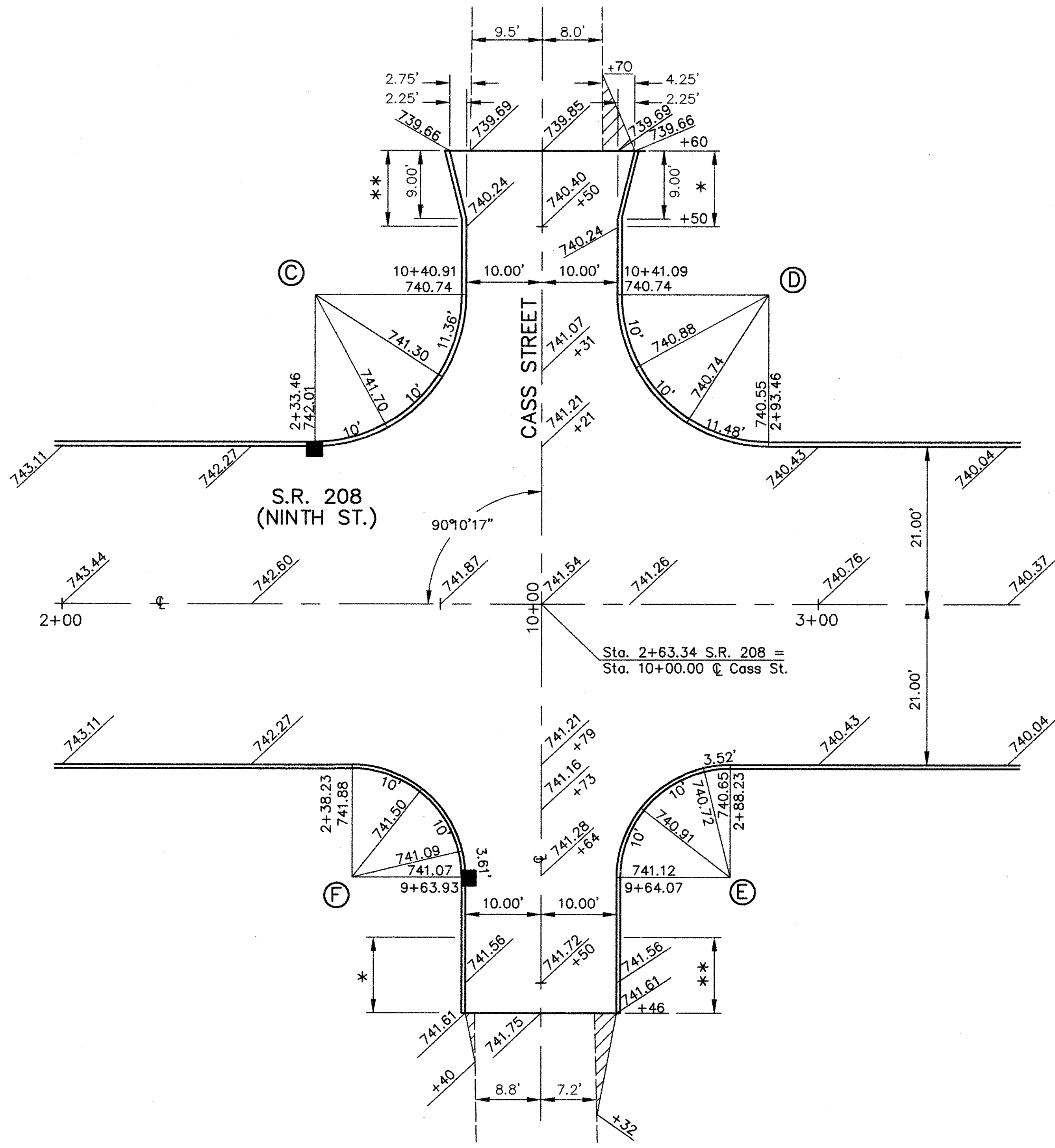
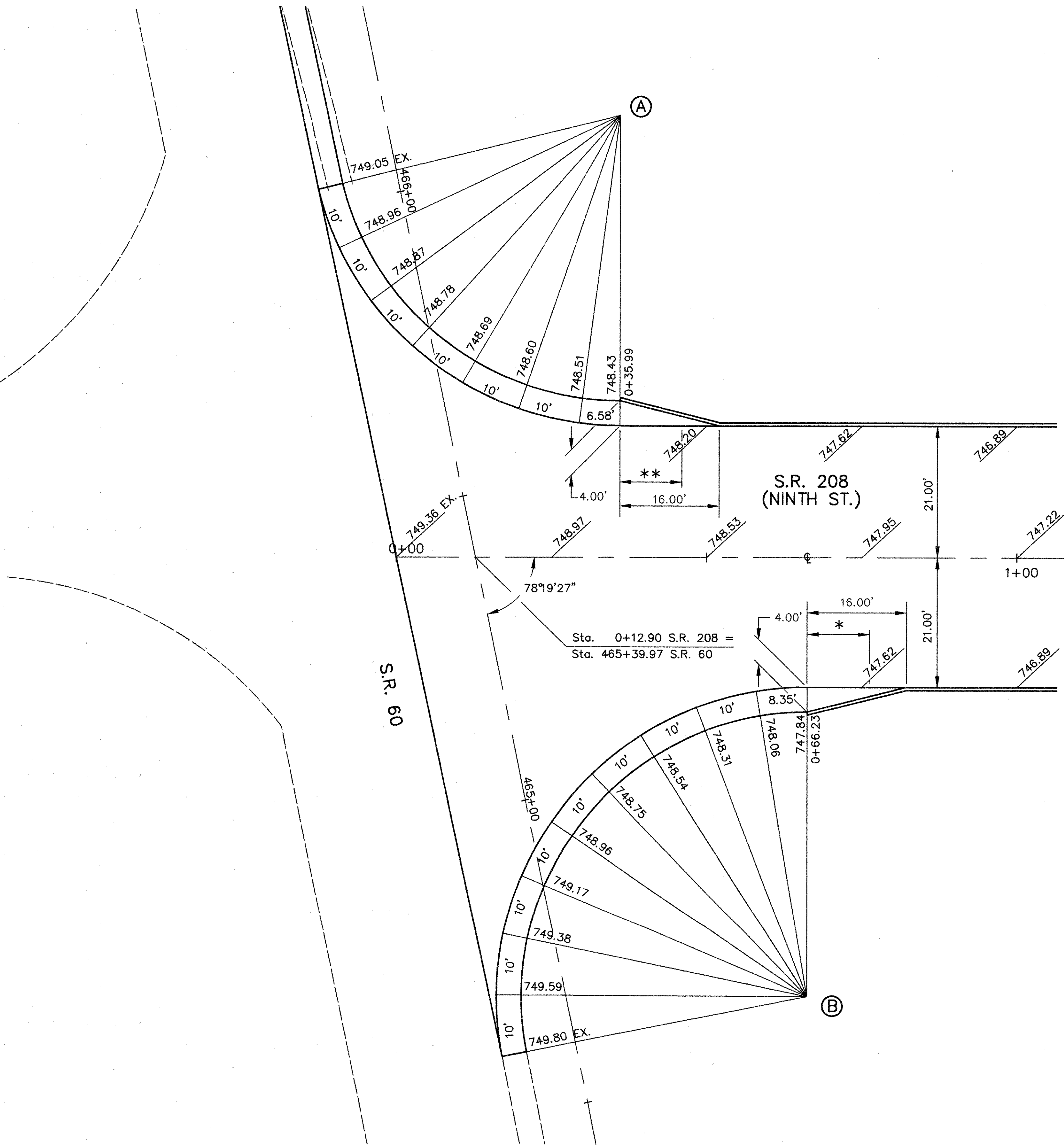
OHIO
REGION 5

26
46

END AREA VOLUME
CUT FILL CUT FILL



DRIVEWAY PROFILES 8+08.3 TO 14+55



- * 10' Taper from 6" to 0"
- ** 10' Taper from 0" to 6"
- ▨ 2" 448 Asphalt Concrete Surface Course. Type I, AC-20
- ▨ 4" 301 Bituminous Aggregate Base

CURVE DATA CHART					
CURVE	RADIUS	ARC LENGTH	CHORD BEARING	TANGENT	DELTA
A	50.00'	66.58'	S 72°51'36" E	39.27'	76°17'47"
B	50.00'	88.35'	S 18°22'15" W	60.92'	101°14'37"
C	20.00'	31.36'	N 24°04'42" E	19.94'	89°49'43"
D	20.00'	31.48'	N 65°55'18" W	20.06'	90°10'17"
E	15.00'	23.52'	N 24°04'42" E	14.96'	89°49'43"
F	15.00'	23.61'	N 65°55'18" W	15.04'	90°10'17"

RADI GIVEN ARE TO EDGE OF PAVEMENT

HORIZONTAL

CALCULATED
MAL
CHECKED
JSS

INTERSECTION DETAIL

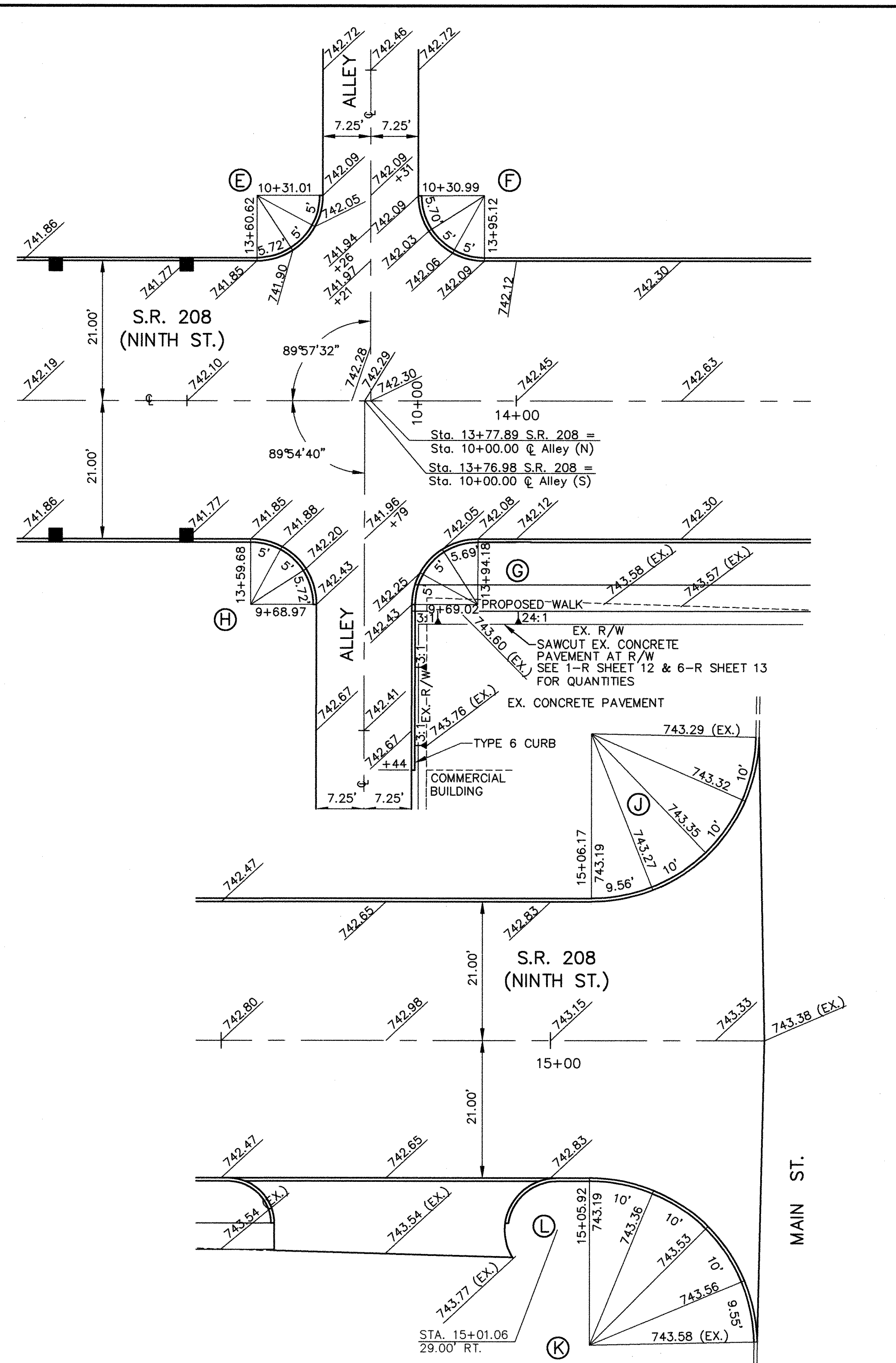
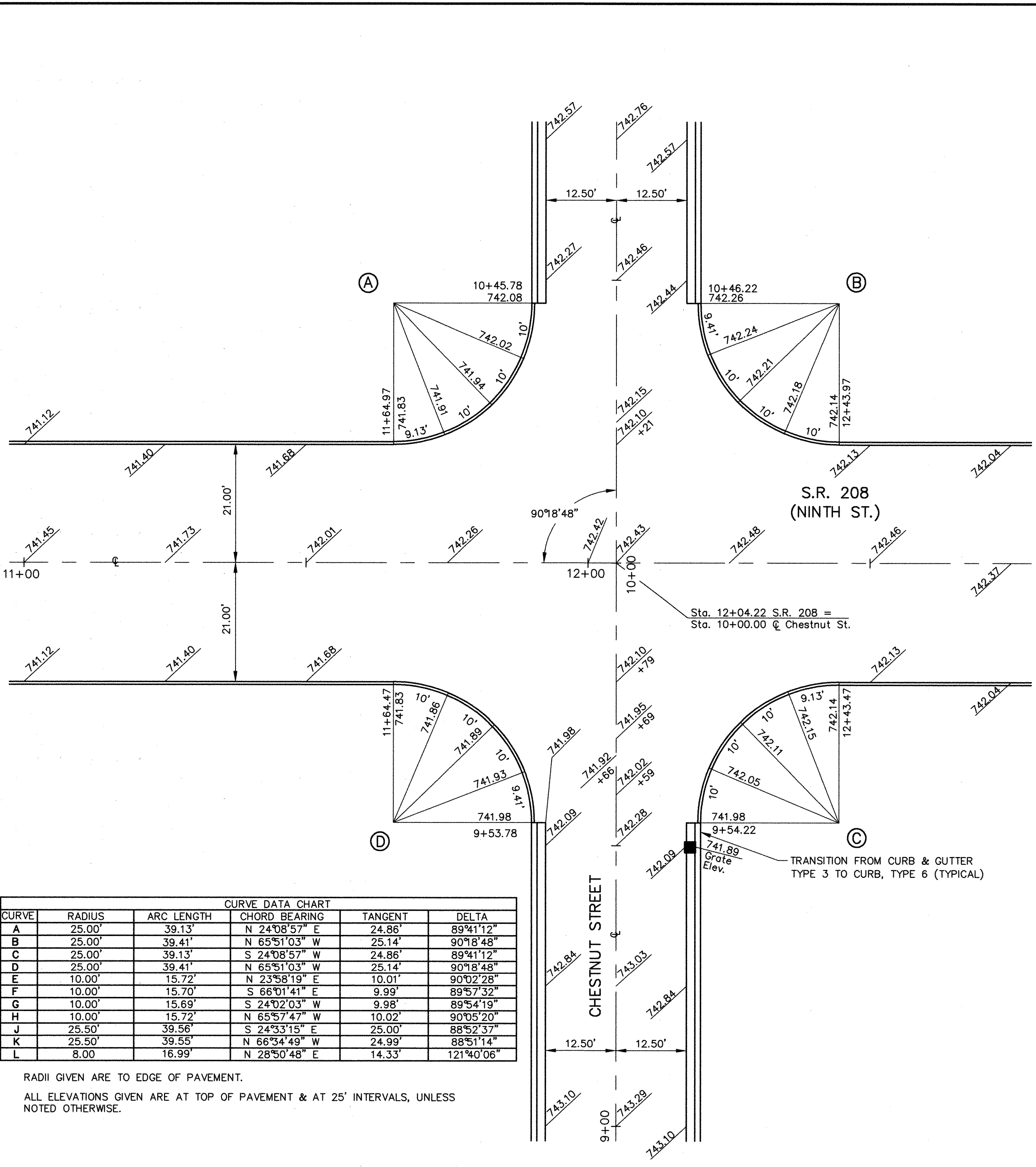
MUS-208-0.00



CALCULATED
MAL
CHECKED
JSS

INTERSECTION DETAIL

MUS-208-0.00



CURVE DATA CHART					
CURVE	RADIUS	ARC LENGTH	CHORD BEARING	TANGENT	DELTA
A	25.00'	39.13'	N 24°08'57" E	24.86'	89°41'12"
B	25.00'	39.41'	N 65°51'03" W	25.14'	90°18'48"
C	25.00'	39.13'	S 24°08'57" W	24.86'	89°41'12"
D	25.00'	39.41'	N 65°51'03" W	25.14'	90°18'48"
E	10.00'	15.72'	N 23°58'19" E	10.01'	90°02'28"
F	10.00'	15.70'	S 66°01'41" E	9.99'	89°57'32"
G	10.00'	15.69'	S 24°02'03" W	9.98'	89°54'19"
H	10.00'	15.72'	N 65°57'47" W	10.02'	90°05'20"
J	25.50'	39.56'	S 24°33'15" E	25.00'	88°52'37"
K	25.50'	39.55'	N 66°34'49" W	24.99'	88°51'14"
L	8.00'	16.99'	N 28°50'48" E	14.33'	121°40'06"

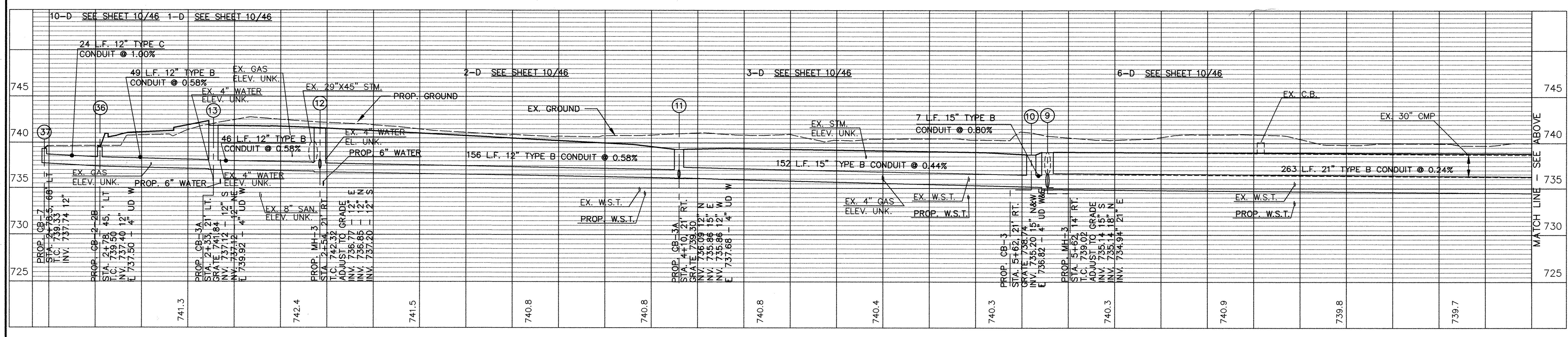
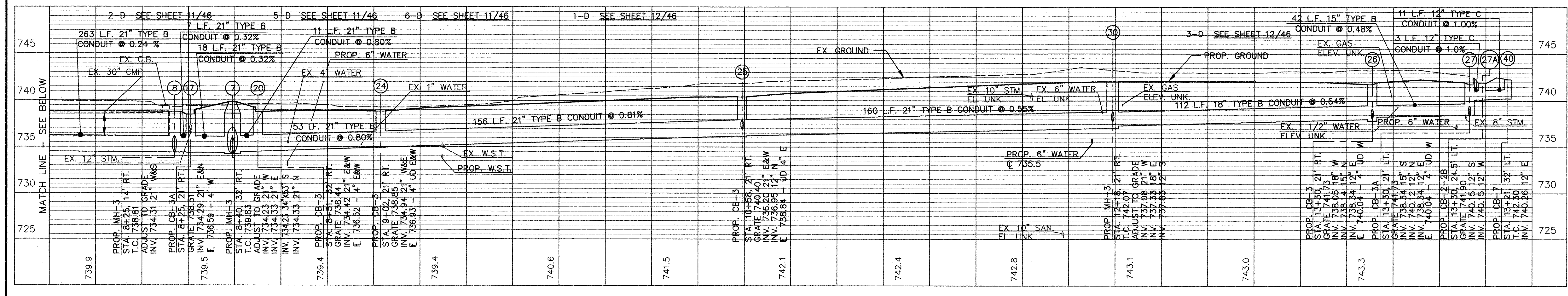
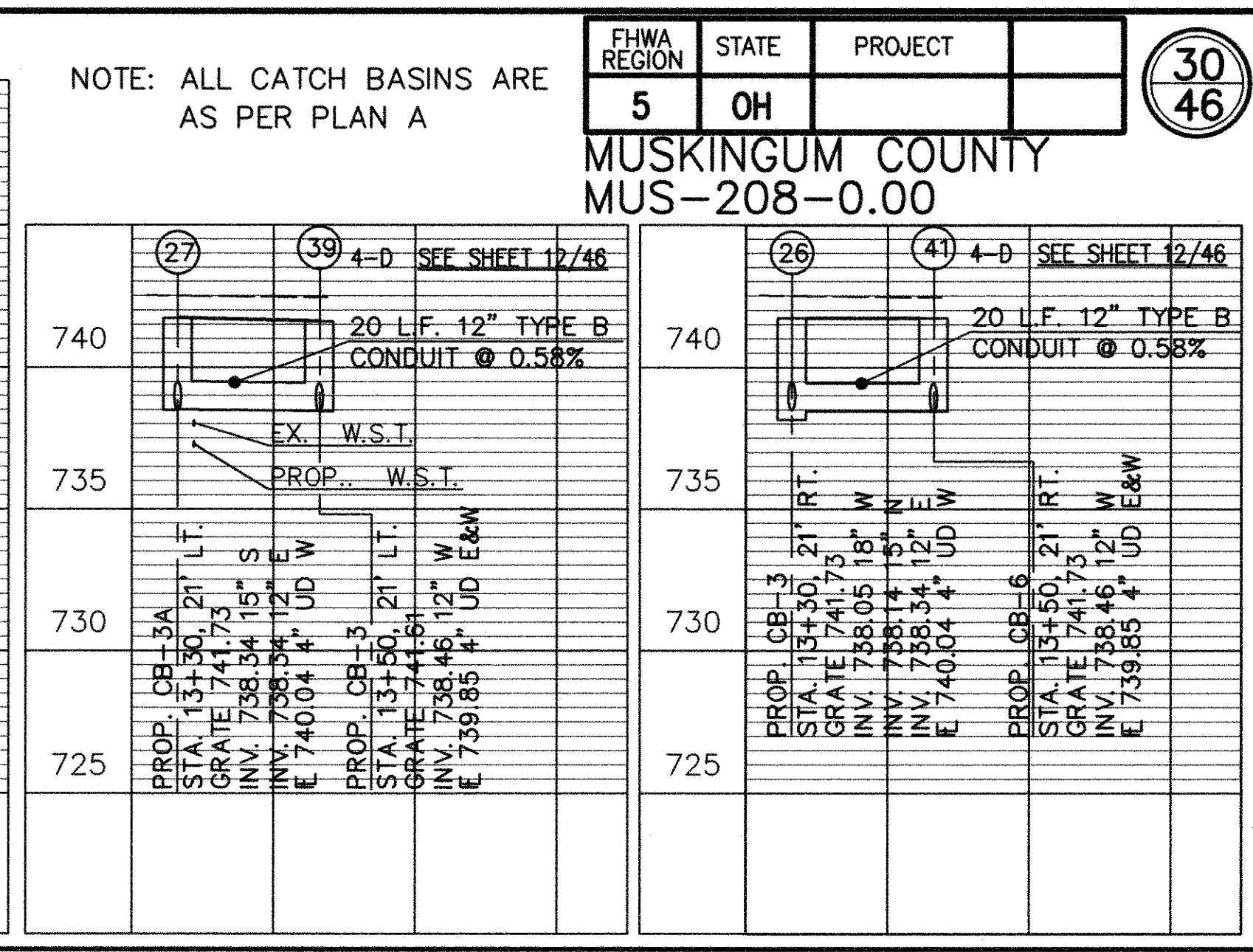
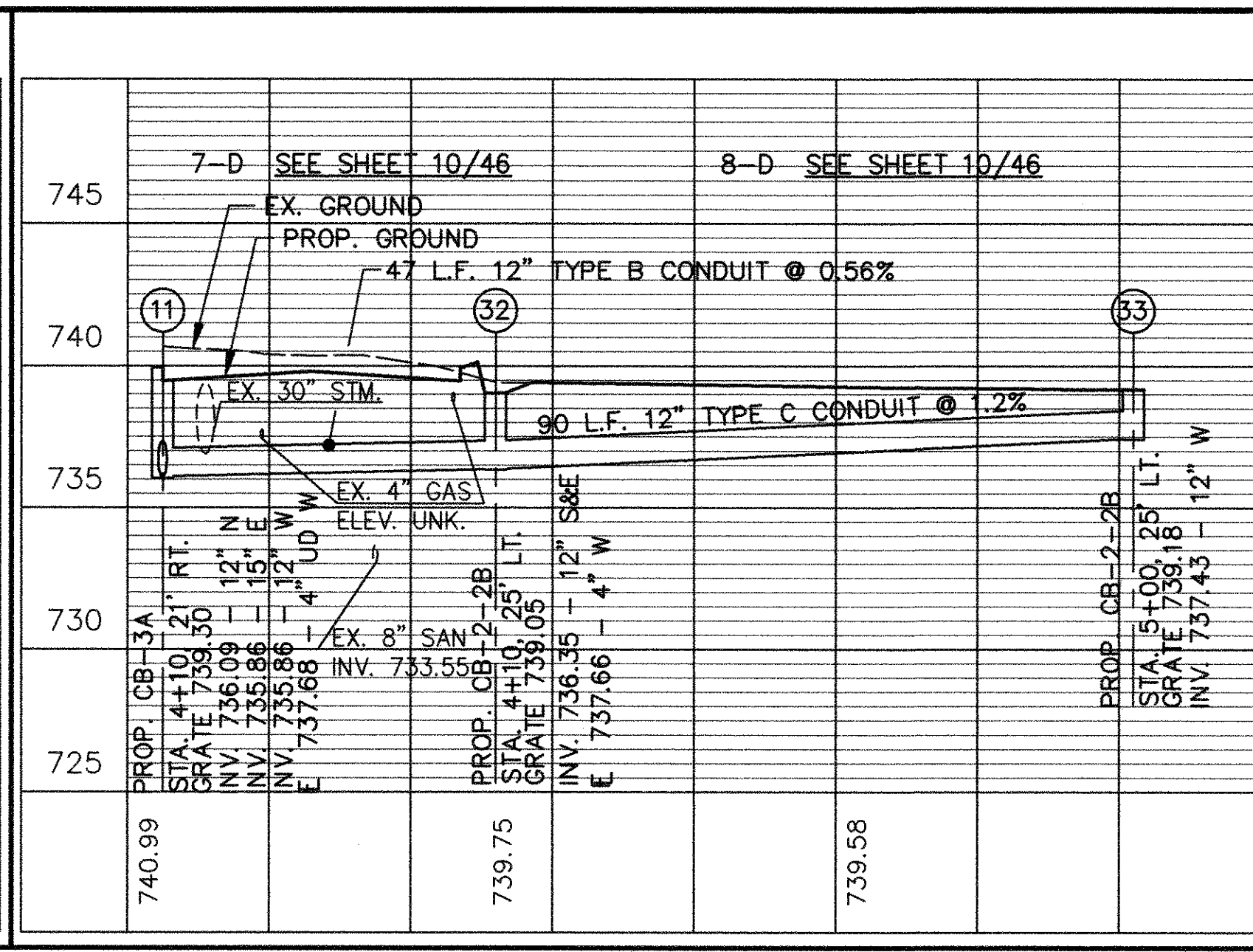
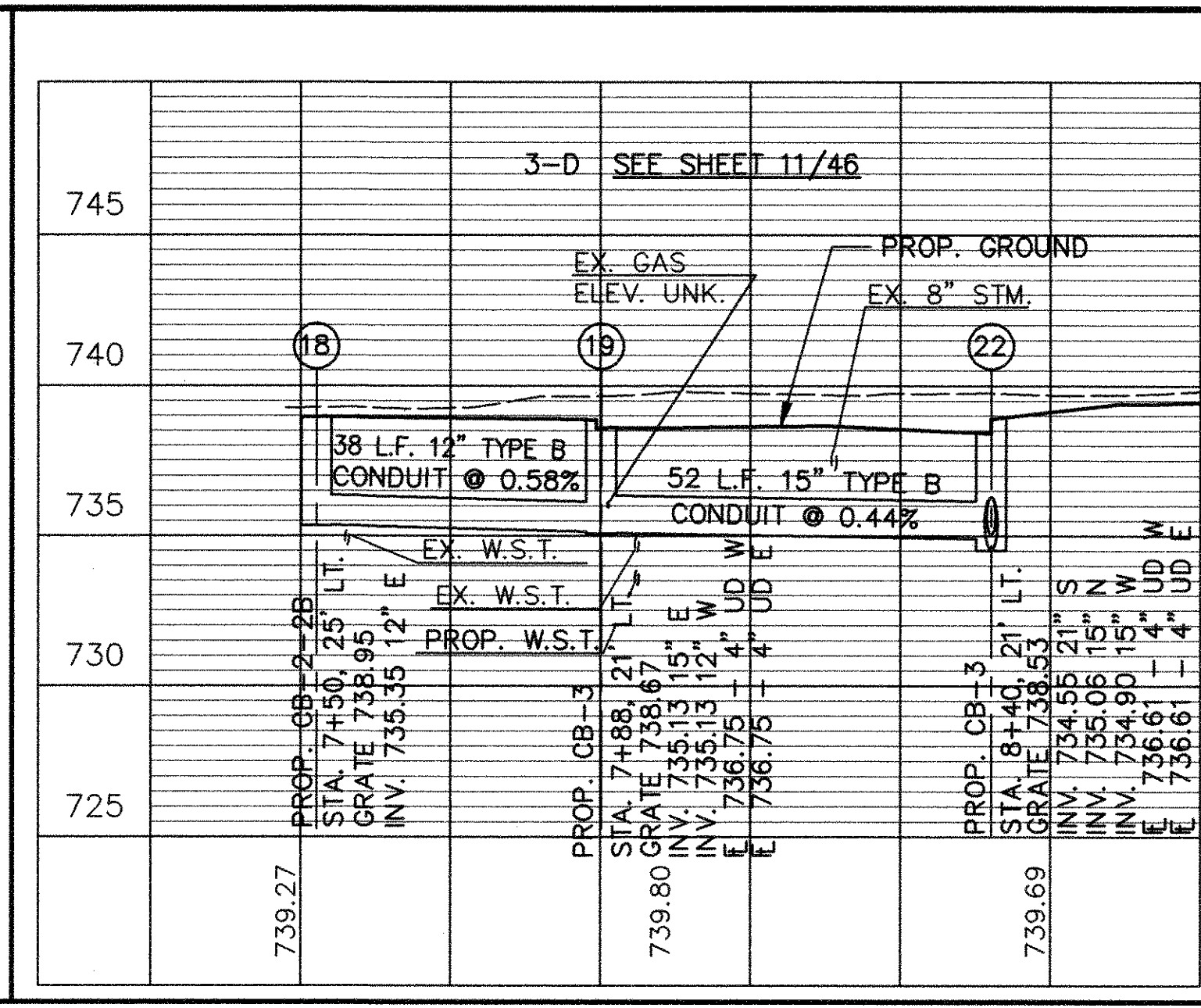
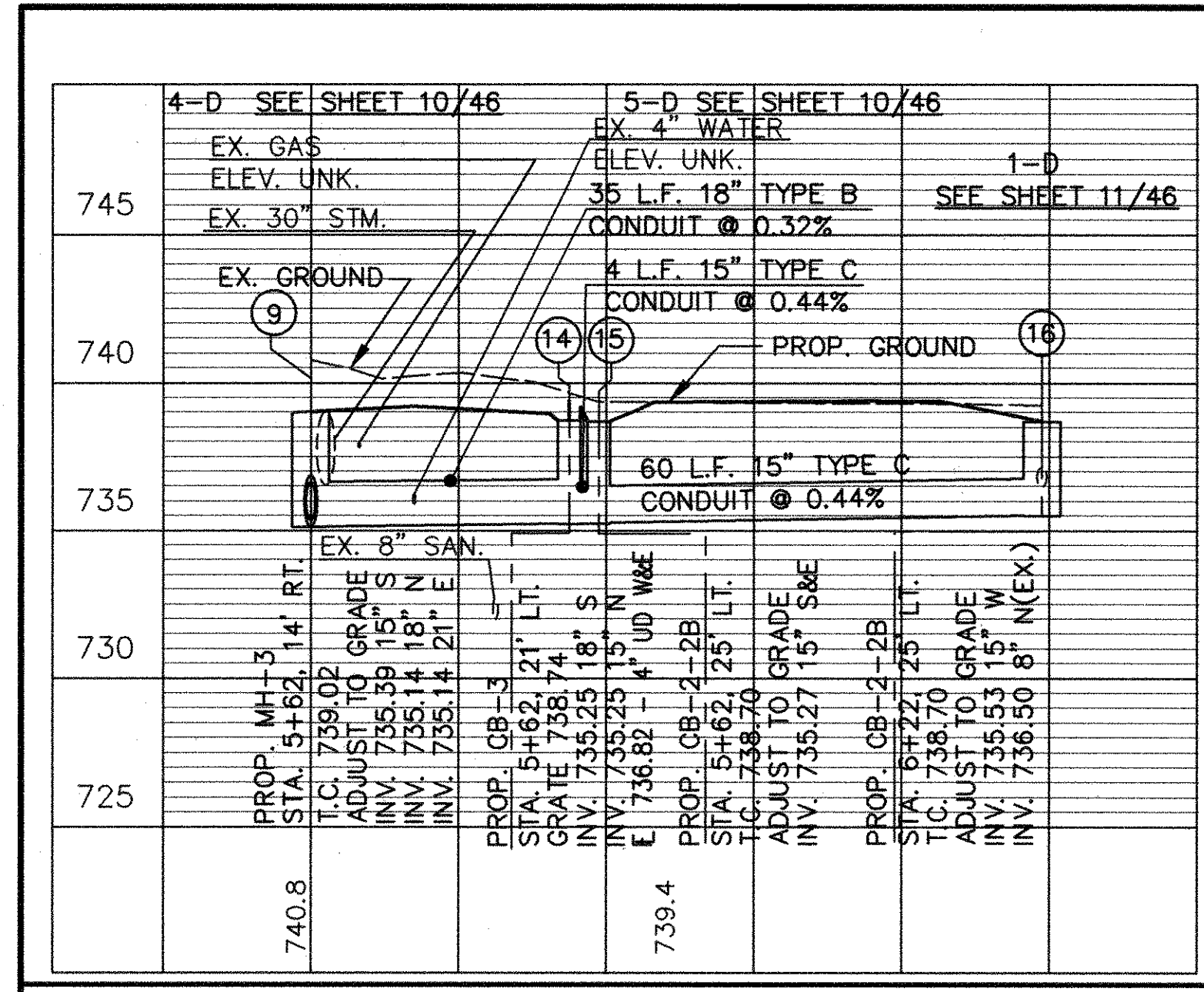
RADII GIVEN ARE TO EDGE OF PAVEMENT.
 ALL ELEVATIONS GIVEN ARE AT TOP OF PAVEMENT & AT 25' INTERVALS, UNLESS NOTED OTHERWISE.

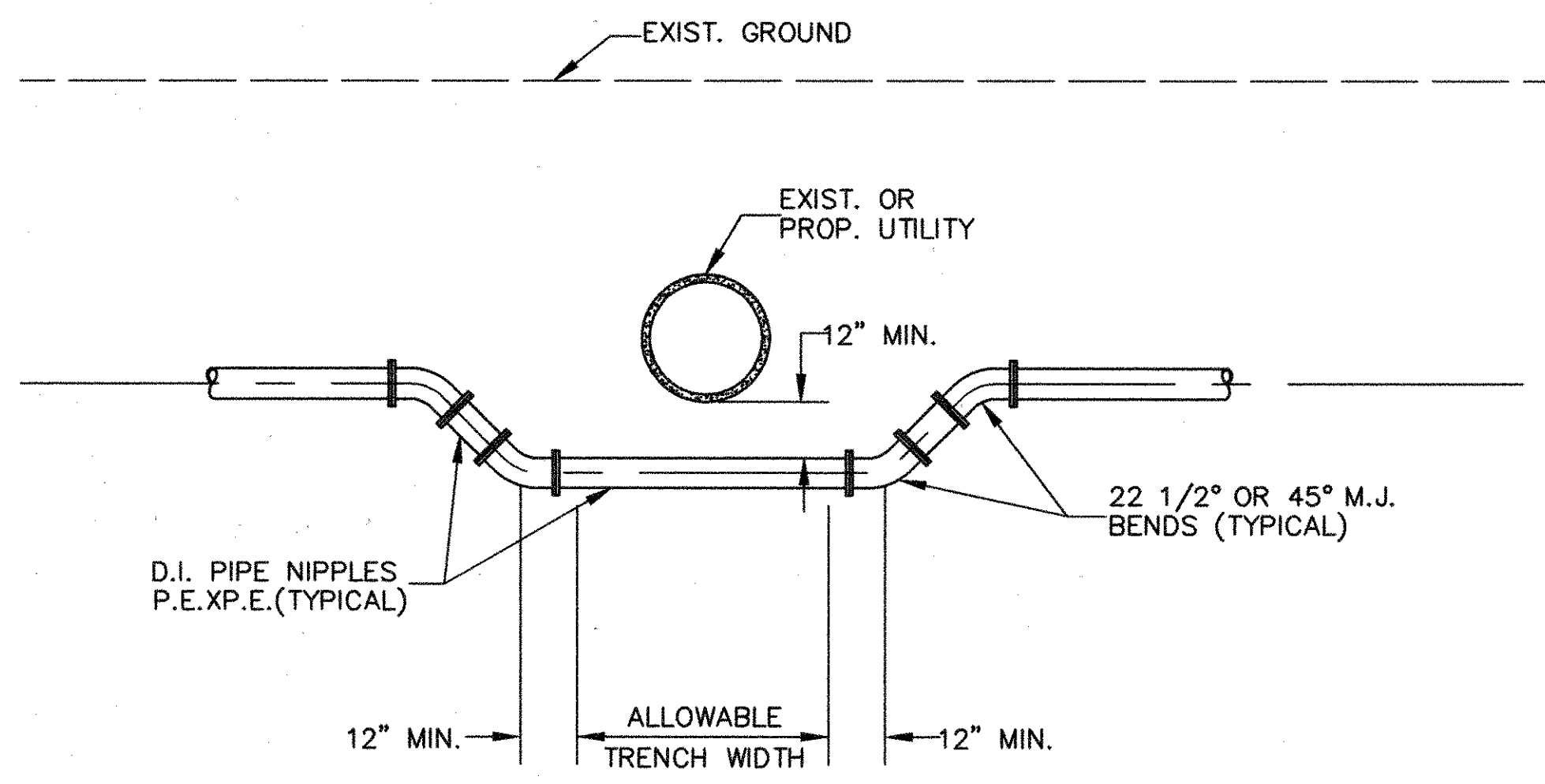
FHWA REGION	STATE	PROJECT
5	OH	

30
46

MUSKINGUM COUNTY
MUS-208-0.00

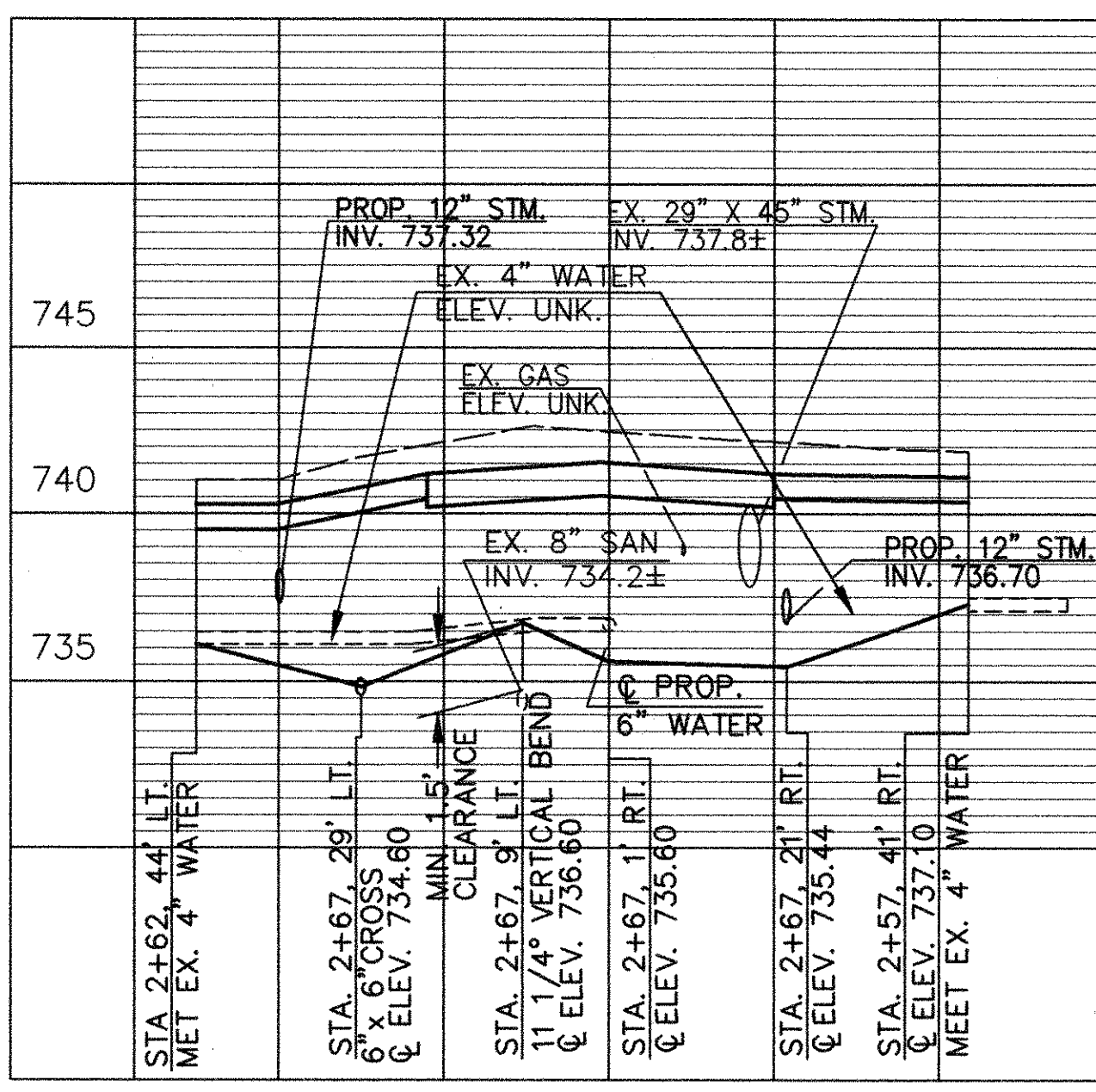
NOTE: ALL CATCH BASINS ARE AS PER PLAN A



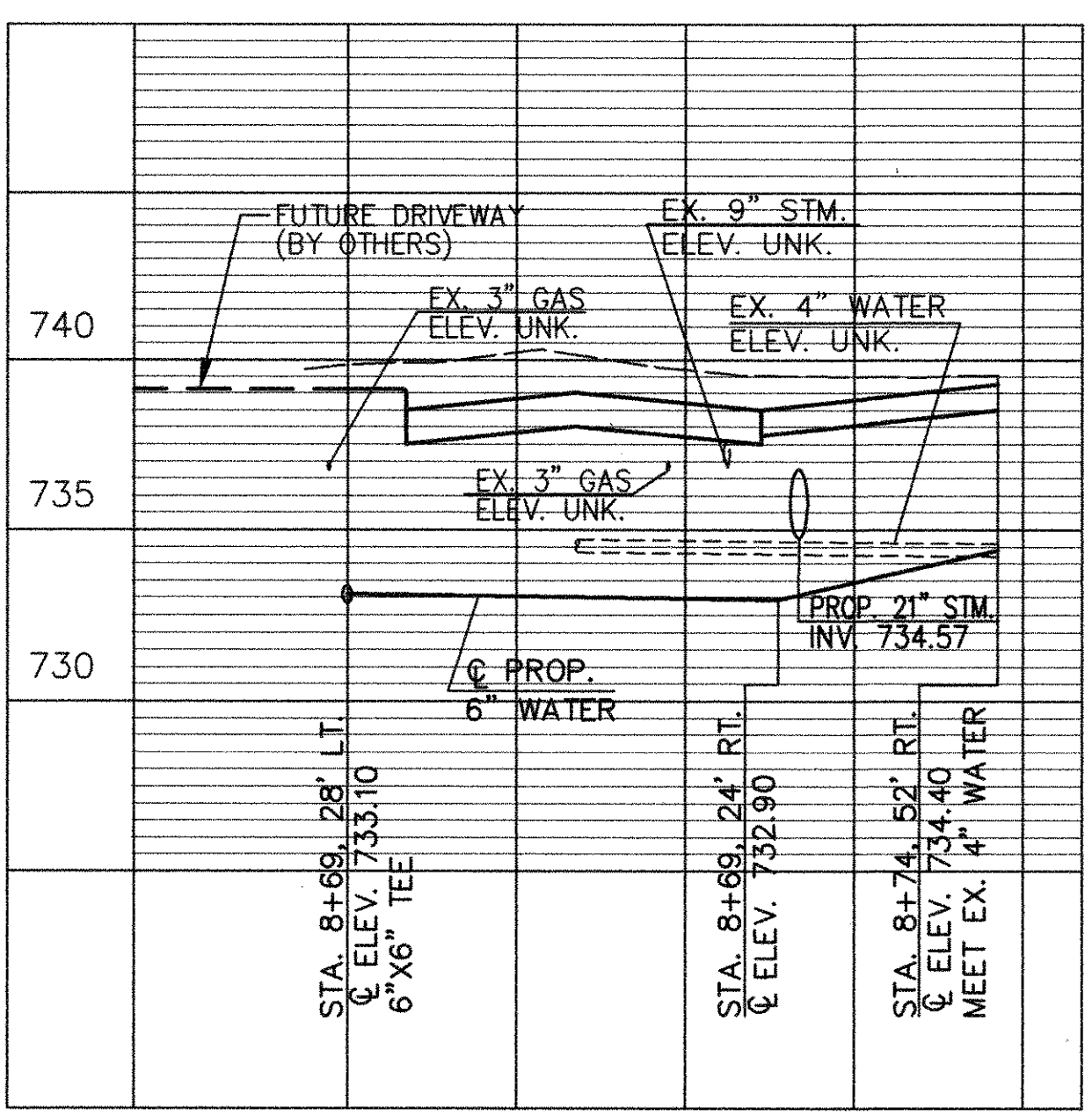


1. ALL BENDS SHALL BE SECURED BY RETAINING GLANDS, RODDING OR OTHER METHODS AS APPROVED BY THE ENGINEER. CONCRETE BACKING SHALL THEN BE PROVIDED IN ACCORDANCE WITH 638.07 FOR OVER BENDS AND FOR SAG BENDS.
2. THE RELOCATED LINES SHALL BE LAID TO THE NEW LINE AND GRADE, TESTED AND DISINFECTED PRIOR TO SHUT DOWN OF EXISTING MAIN AND CONNECTION OF THE RELOCATED LINES TO THE EXISTING MAIN.
3. ALL WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH 638.10
4. ALL WATER CUSTOMERS ARE TO BE NOTIFIED 24 HOURS IN ADVANCE OF ANY SERVICE SHUT DOWN.

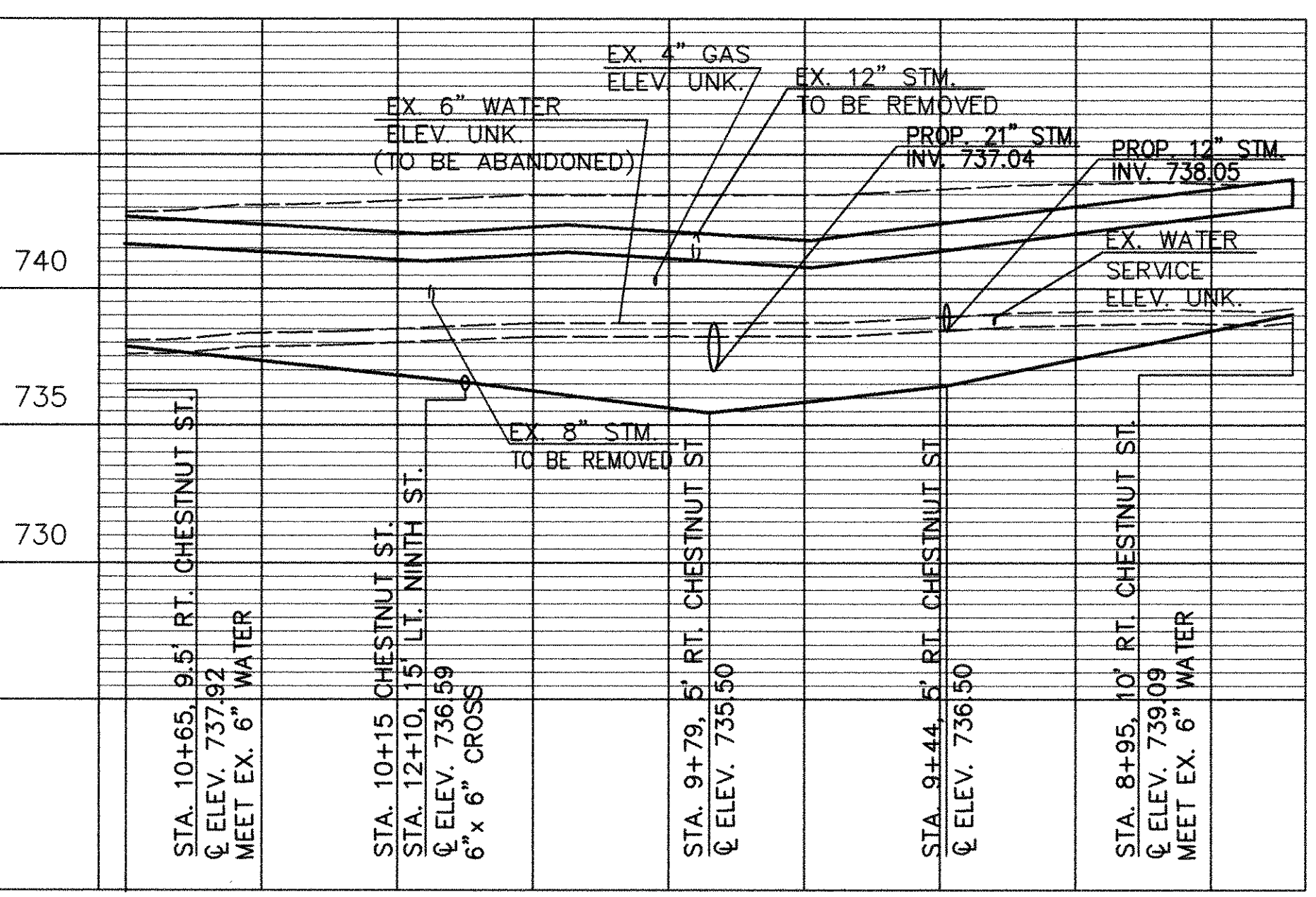
WATER LINE LOWERING DETAIL



WATER LINE PROFILE
2+57 TO 2+62 NINTH ST.

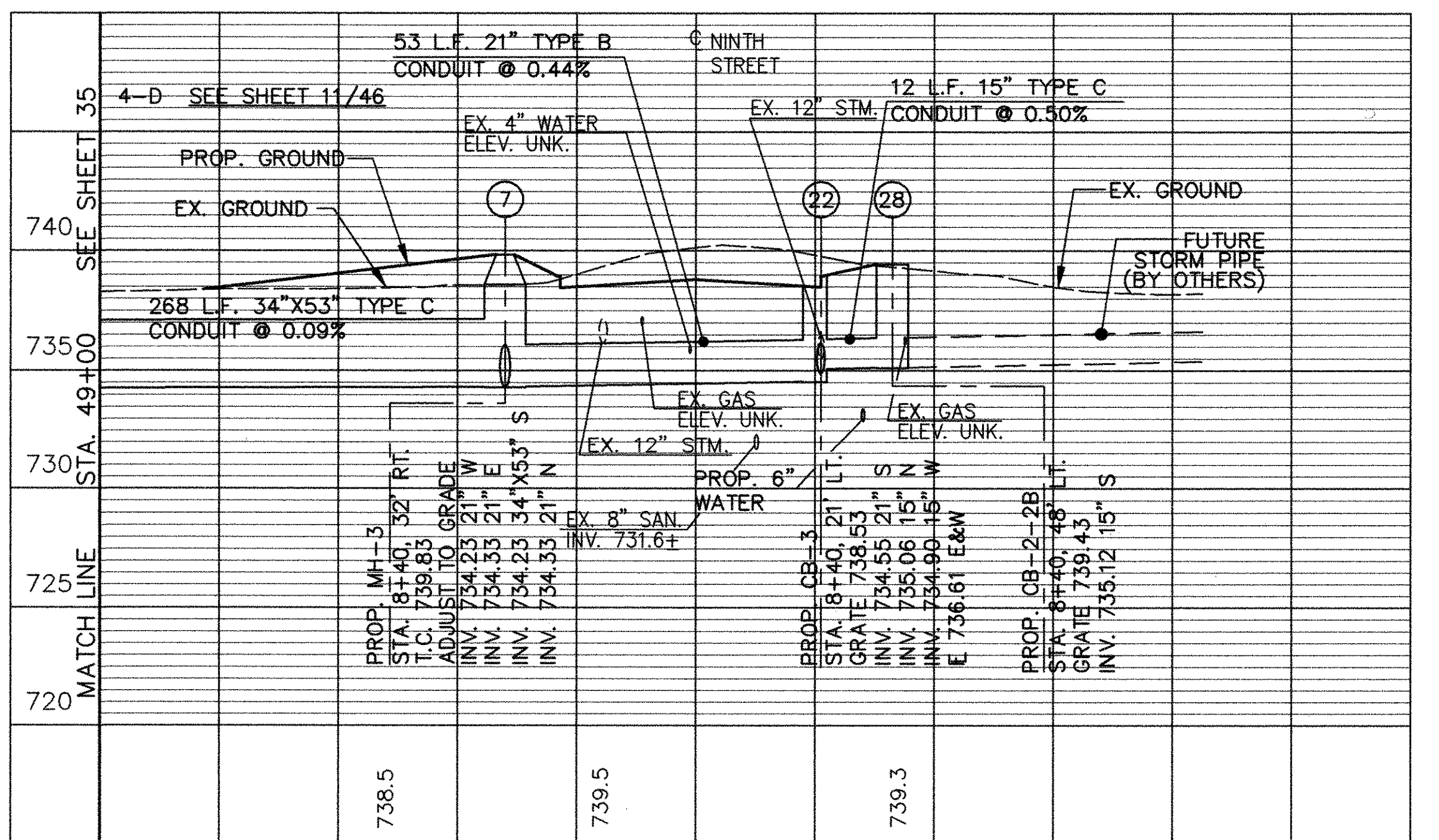
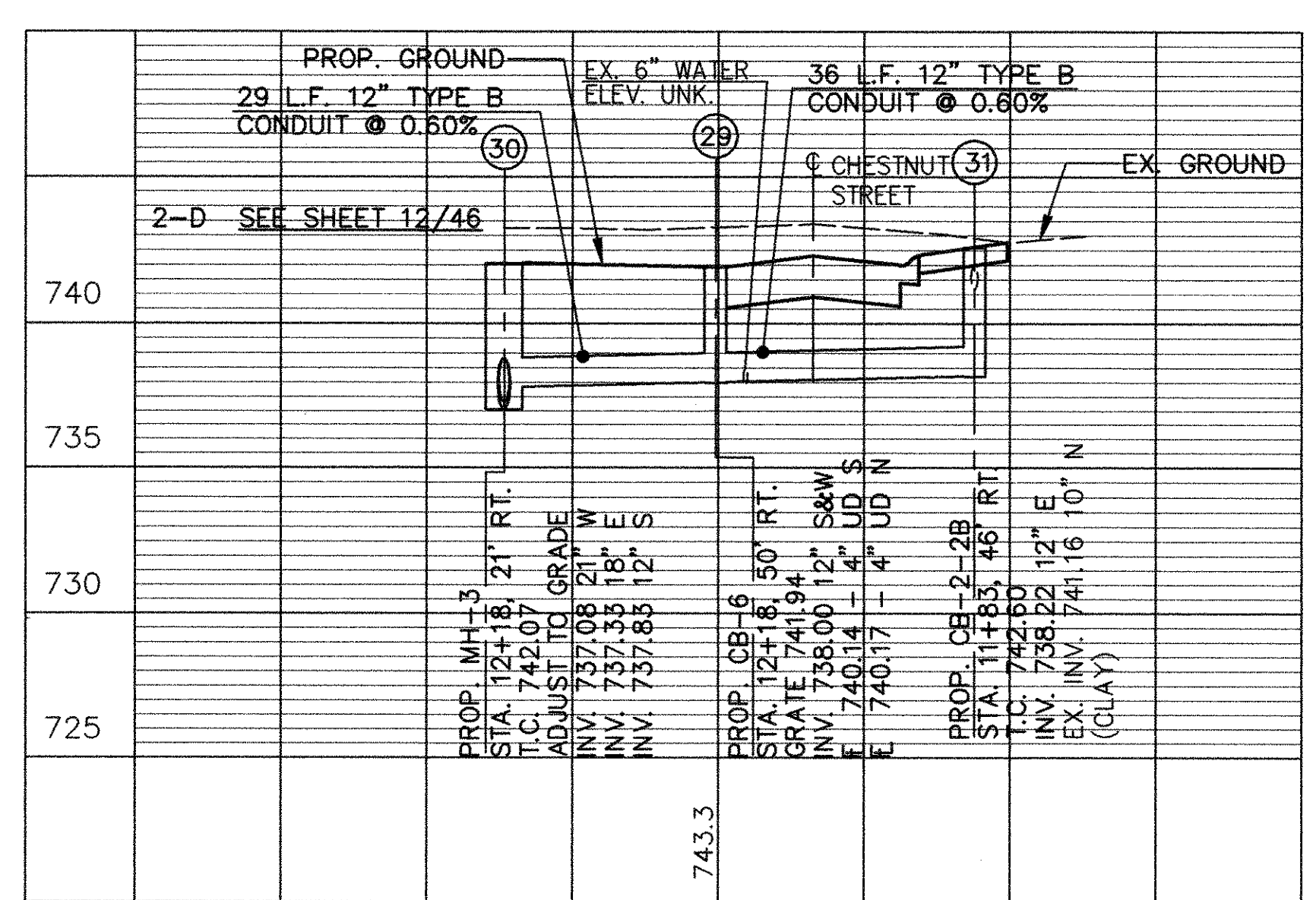
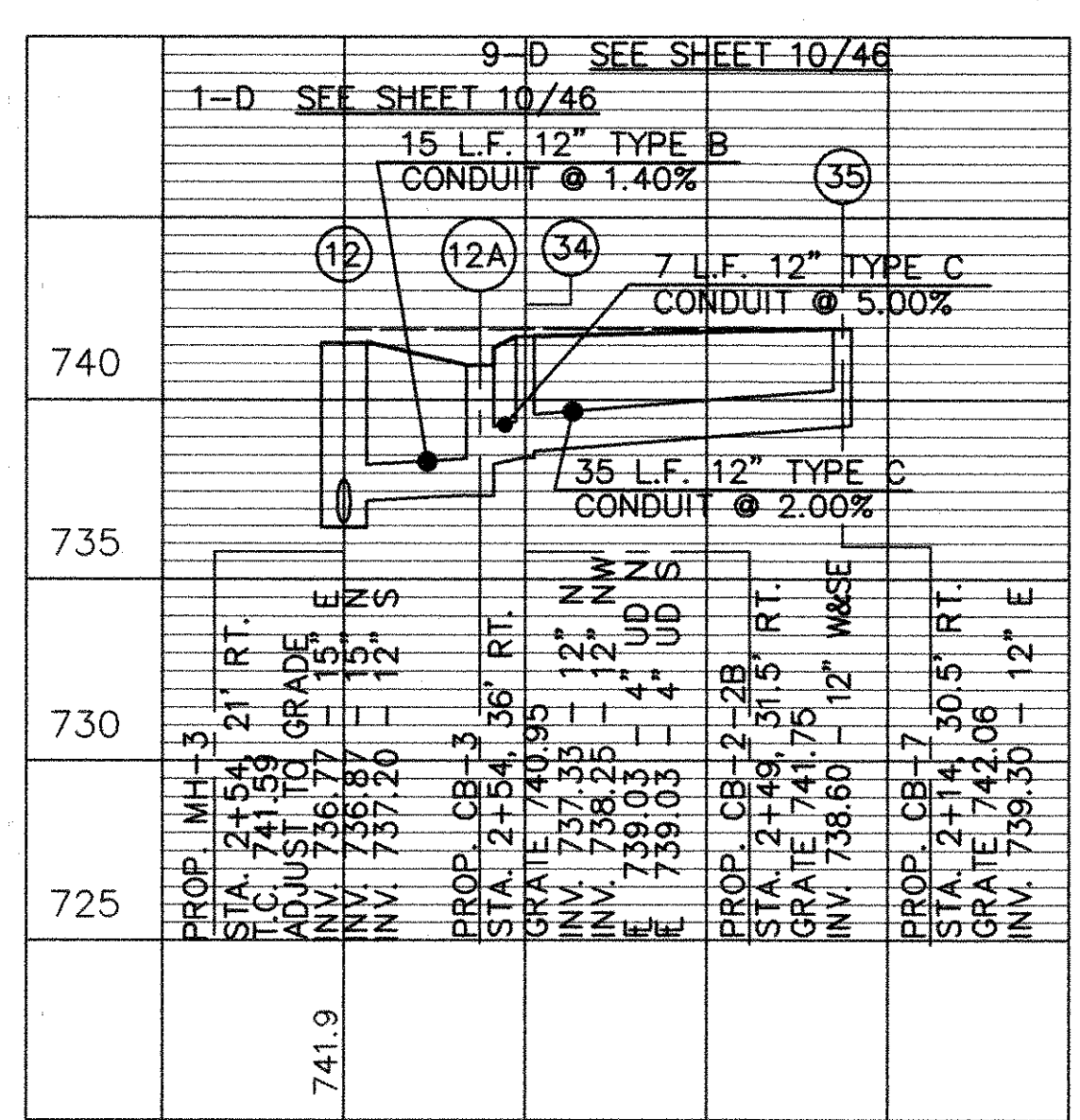
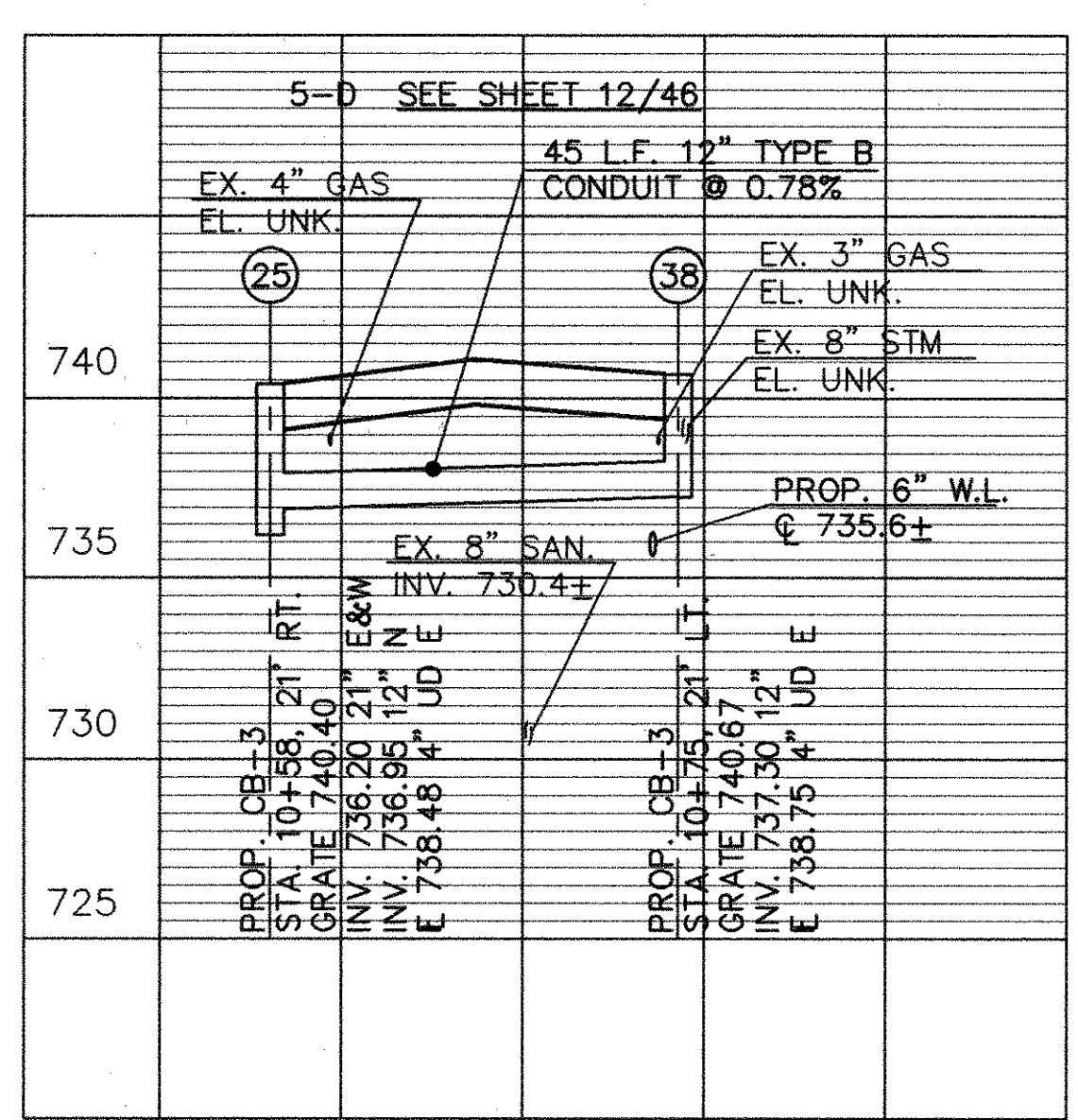


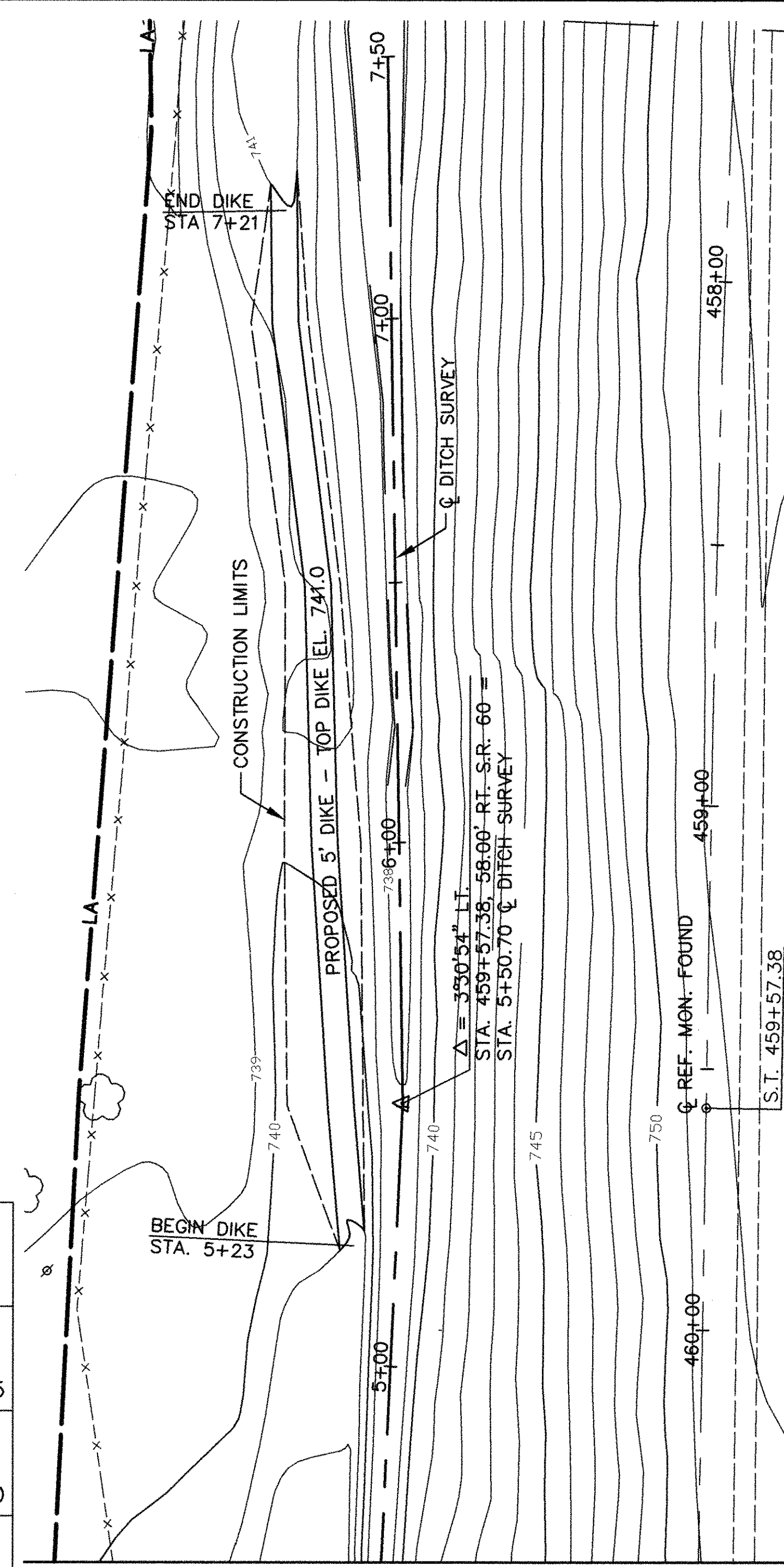
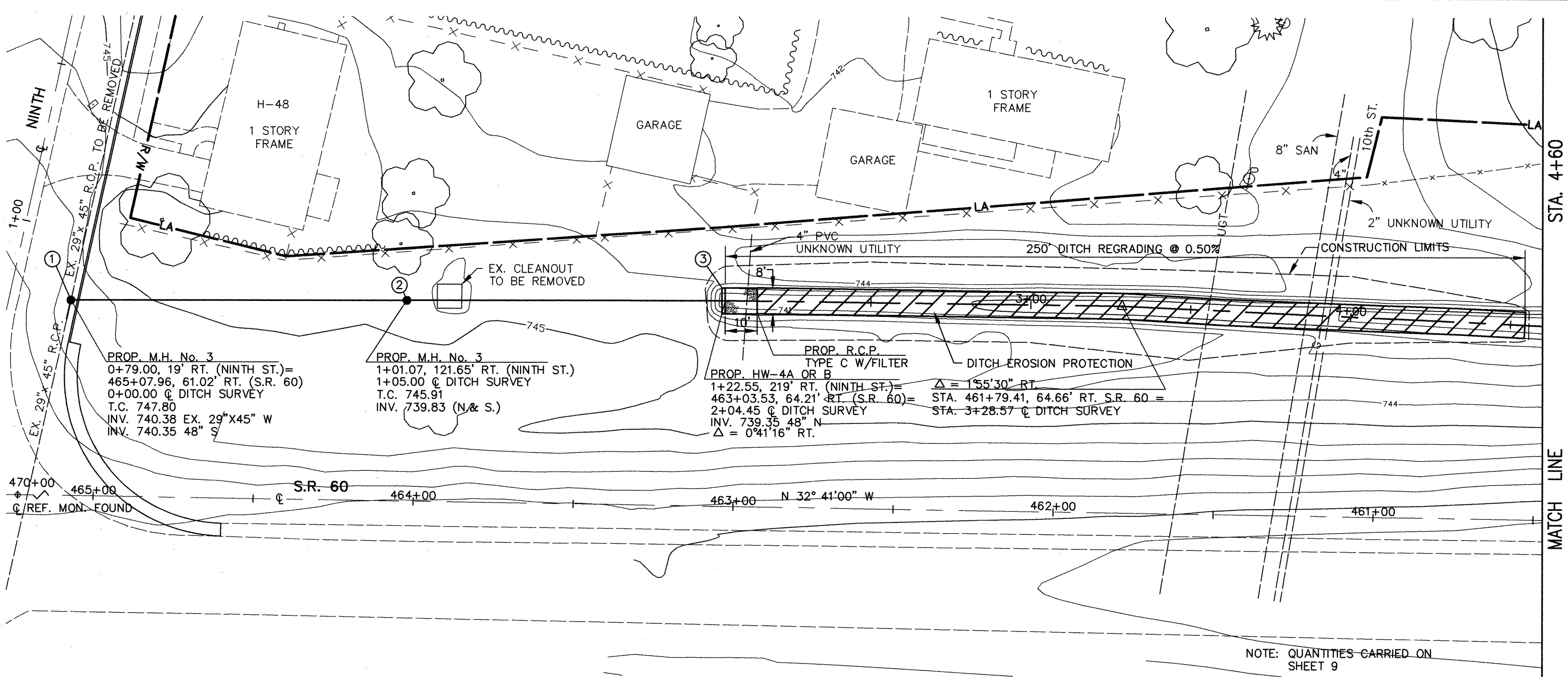
WATER LINE PROFILE
8+69 NINTH ST.



WATER LINE PROFILE
12+10 NINTH ST.

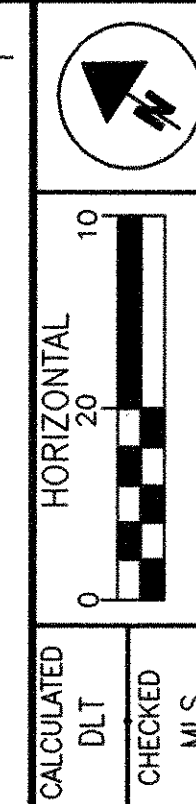
NOTE: ALL CATCH BASINS ARE AS PER PLAN A





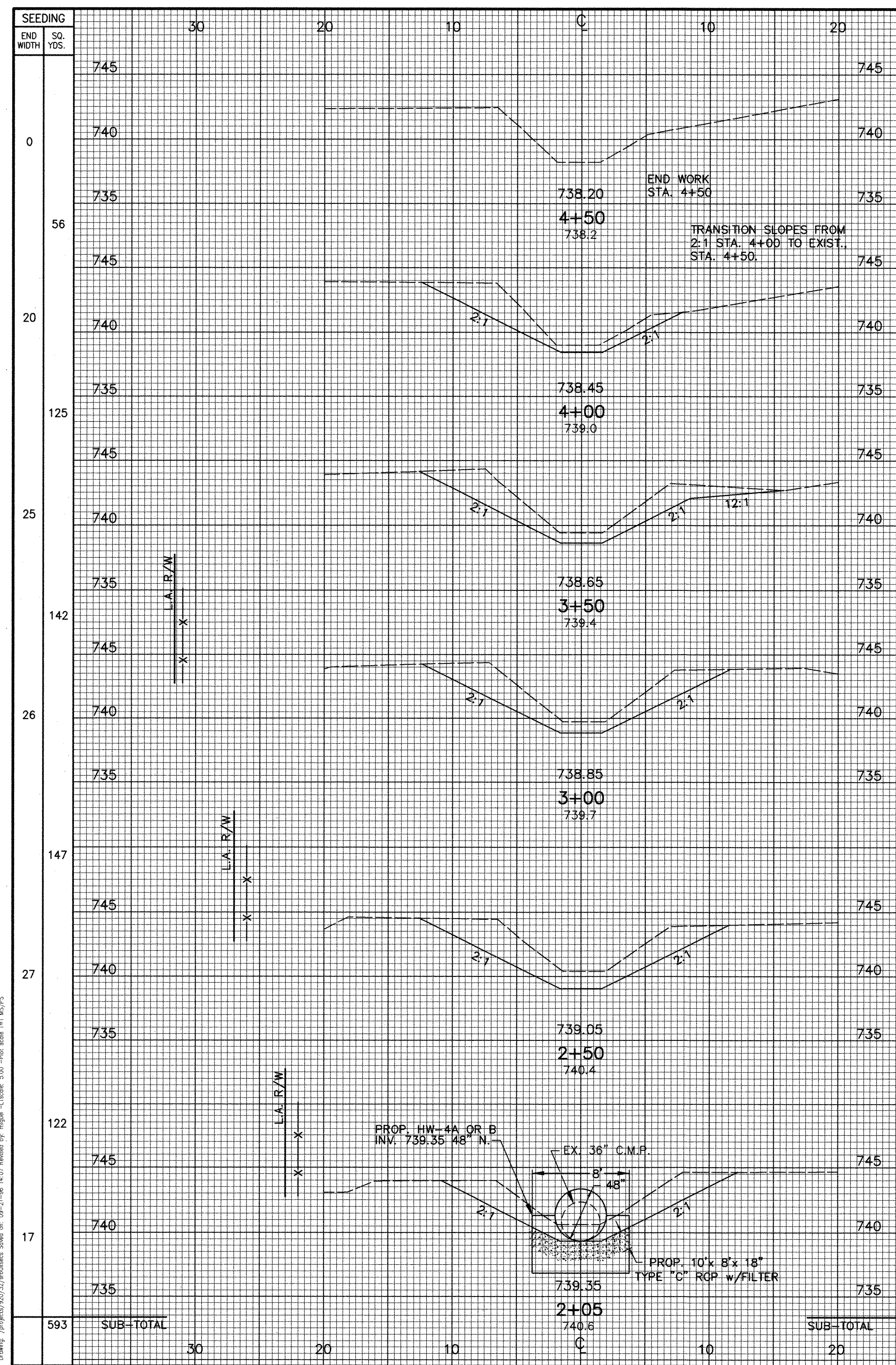
NOTE: QUANTITIES CARRIED ON SHEET 9

746.41	744.38	744.42	743.00	740.46	739.78	739.45	739.03	738.29	738.20
747.50	745.23	745.00	744.66	743.14	739.12	738.90	738.67	738.45	738.22
755									755
750									750
745									745
740									740
735									735
730									730
0	1	2	3	4					

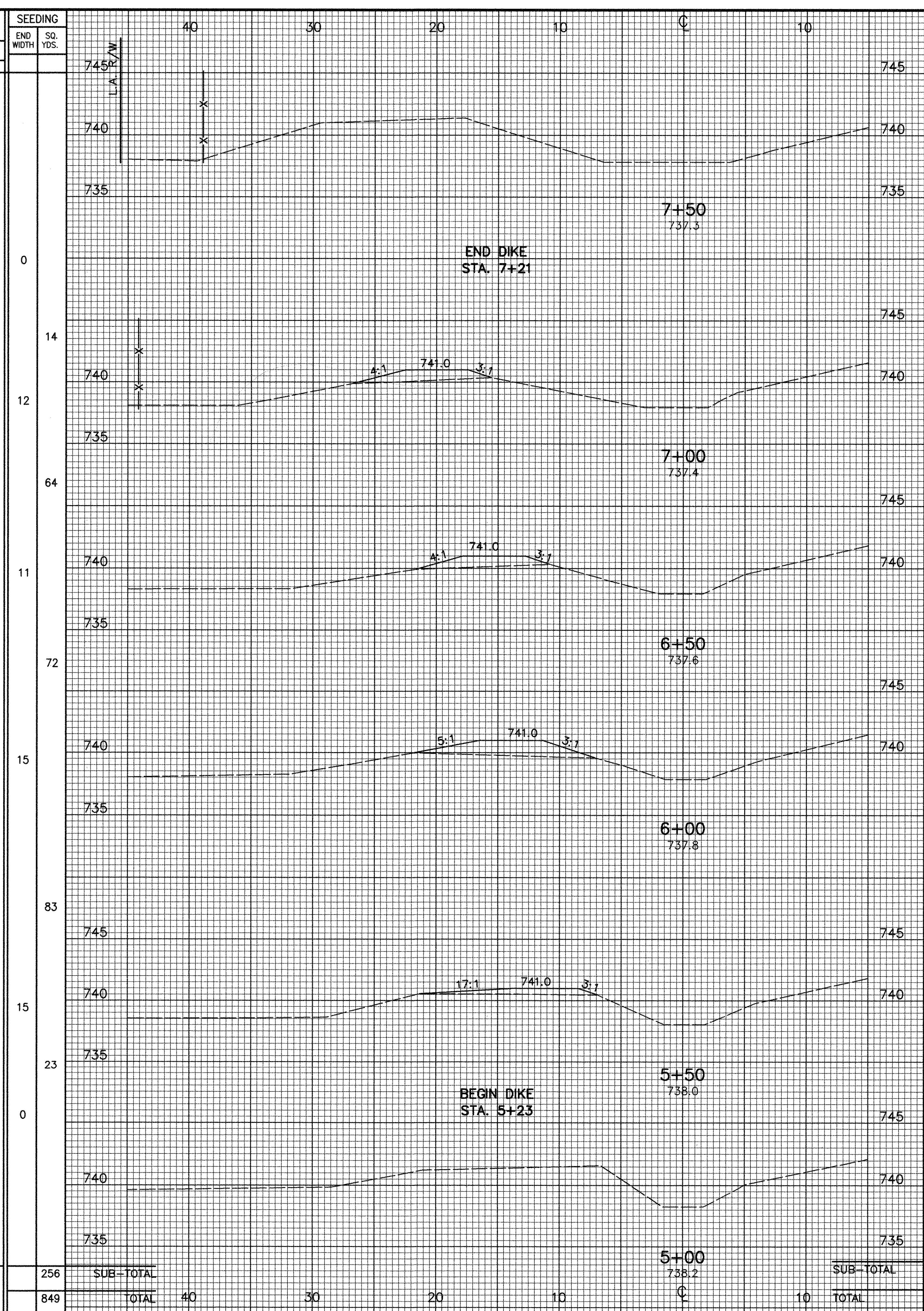


CALCULATED
DLT
CHECKED
M/S

S.R. 60 STORM SEWER AND DITCH PROFILE



END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
14	0	14	0
15	0	15	0
42	0	42	0
30	0	30	0
59	0	59	0
33	0	33	0
66	0	66	0
38	0	38	0
58	0	58	0
32	0	32	0
239	0	239	0

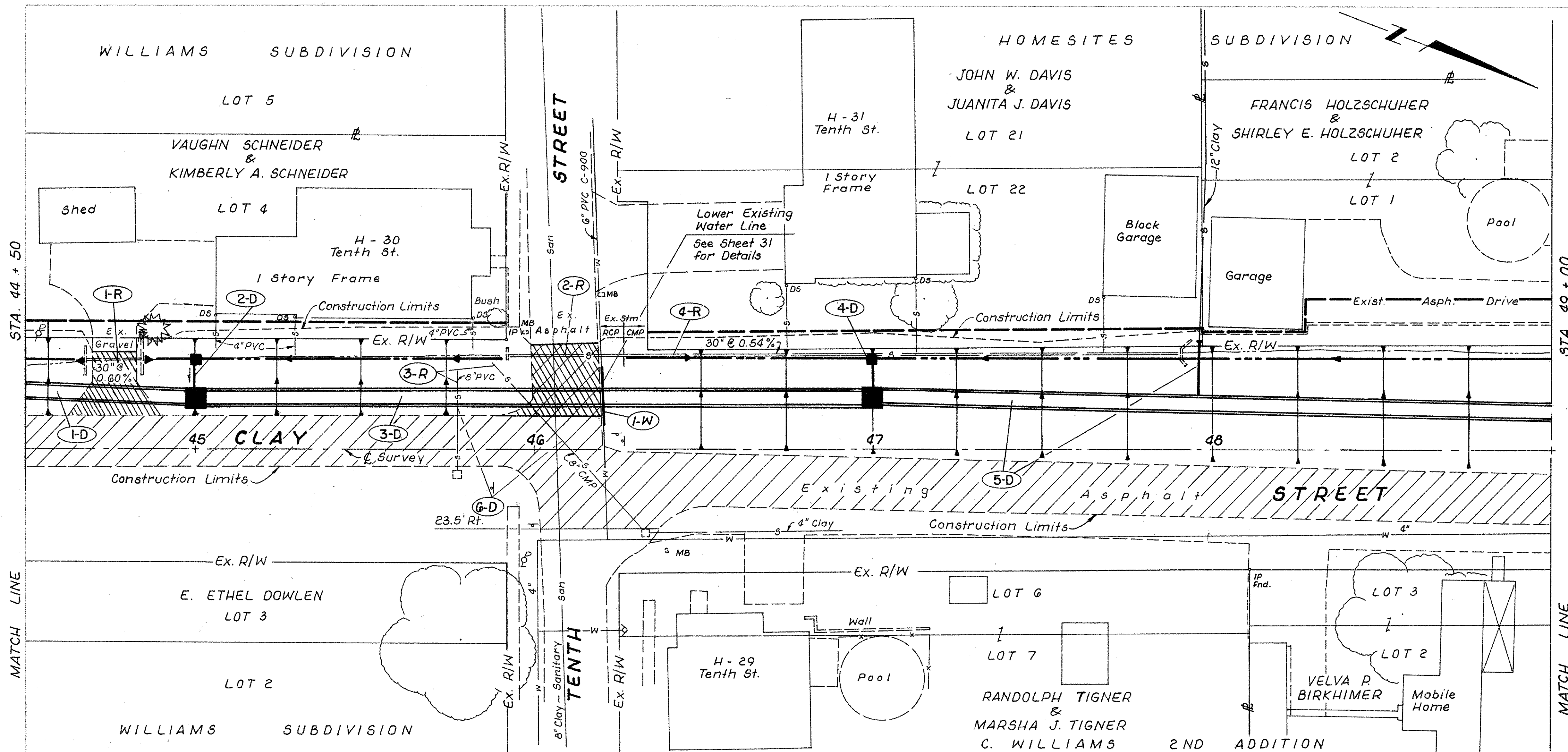


END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0	0	0
0	0	0	0
0	7	0	7
0	13	0	13
0	7	0	7
0	18	0	18
0	12	0	12
0	16	0	16
0	5	0	5
0	3	0	3
0	0	0	0
0	53	0	53
239	53	239	53

S.R. 60 DITCH CROSS SECTIONS
STA. 2+05 TO STA. 7+50

MUS - 208-0.00

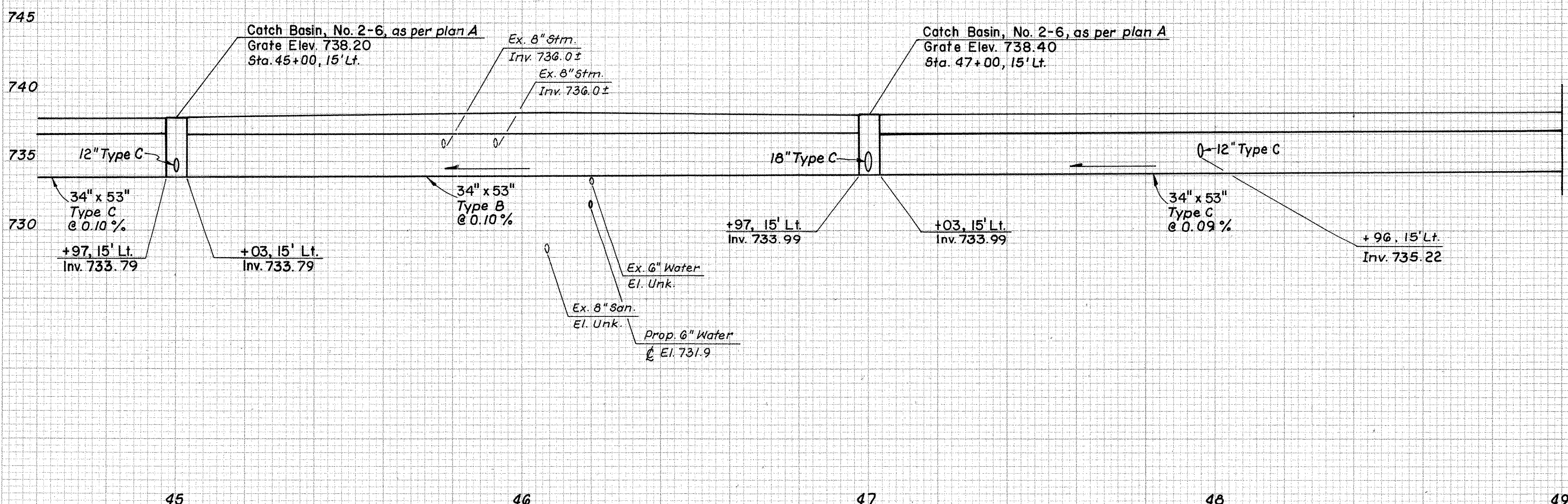
33
46



Pavement Replacement
See Sheet 8 & 8A
for Quantities

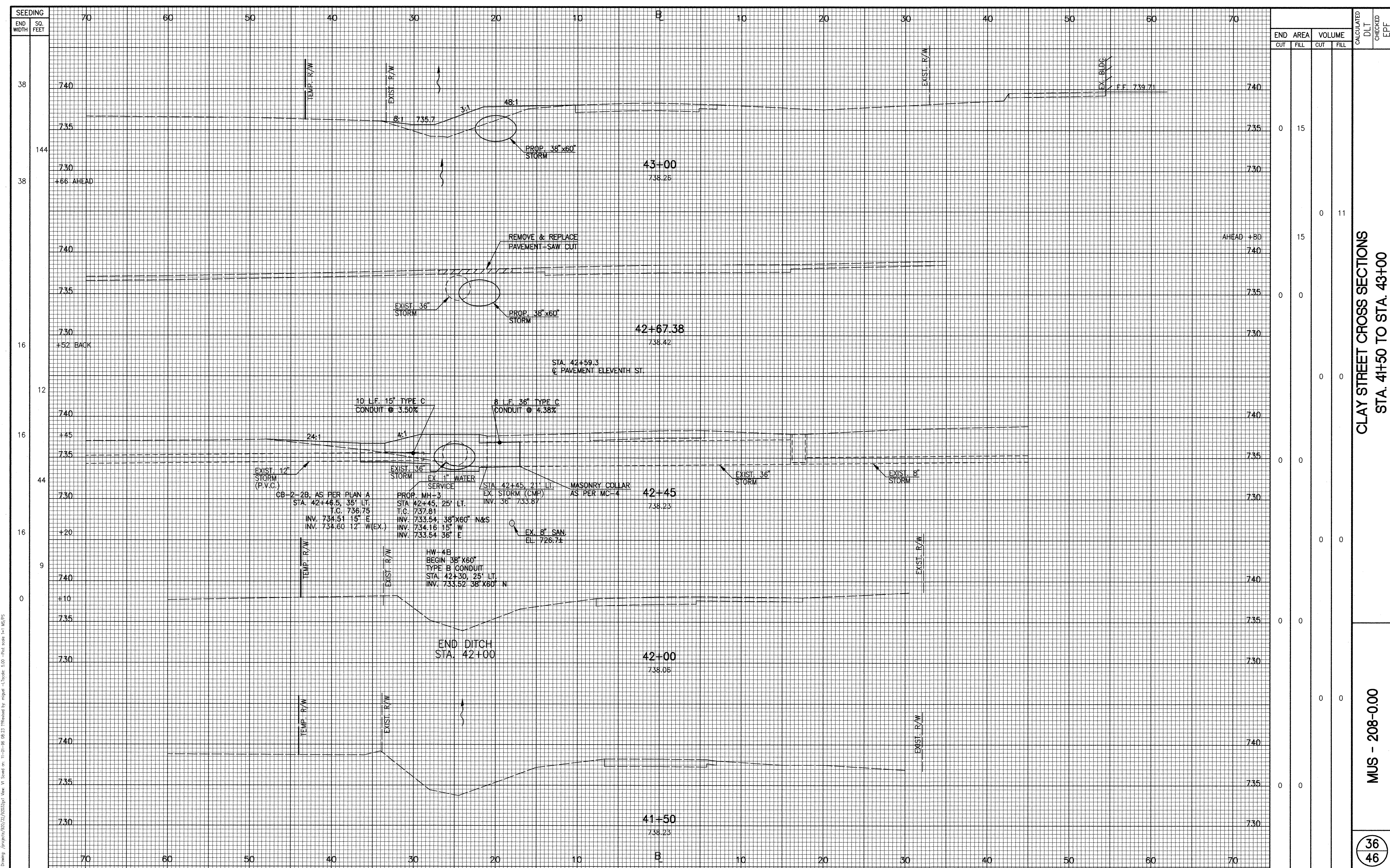
NOTE: For Water Work Quantities
see Sheet 14

1/4" Item 448 Surface Course, Type I, AC-20 &
Item 407 Tack Coat, see Sheet 8 for Quantities.



ESTIMATED QUANTITIES
as per plan A

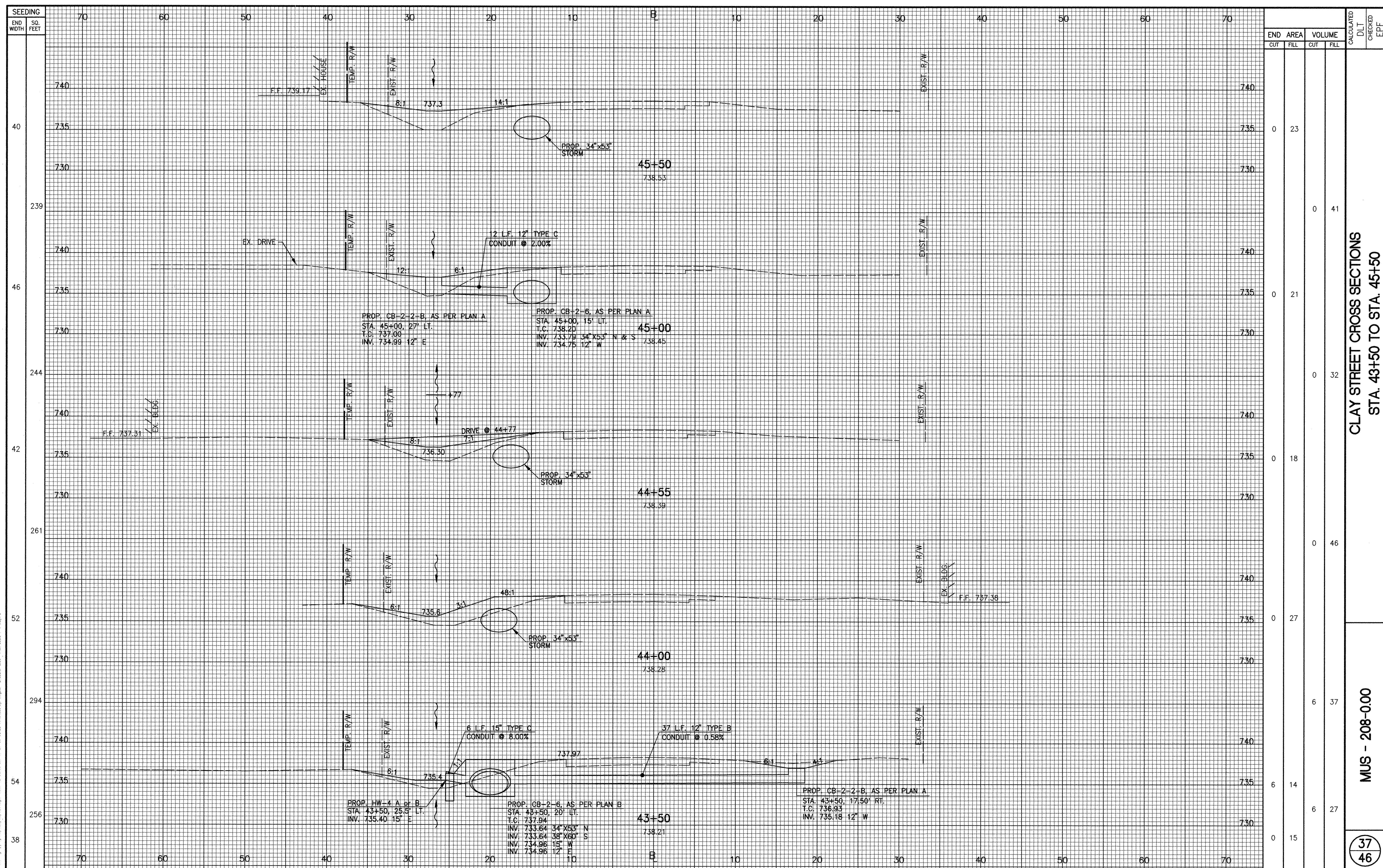
REF. NO.	STATION TO STATION	SIDE	603 34"x53" Type B Conduit	603 18" Type C Conduit	603 12" Type C Conduit	604 Catch Basin No. 2-6	603 Pipe Removed Over 24"	602 Pipe Removed 24" and Under	603 8" Conduit Type B	TOTALS TO GENERAL SUMMARY
I-R	44+67 to 44+85	Lt.								
2-R	45+92 to 46+27	Lt.								
3-R	45+77 to 46+00	Lt.								
I-D	44+50 to 45+00	Lt.								
2-D	45+00 to 45+00	Lt.								
3-D	45+00 to 47+00	Lt.	200							
4-D	47+00 to 49+00	Lt.		12	19					
5-D	47+00 to 46+02	Lt.								
6-D	45+77 to 46+02	Lt.								
4-R	46+27 to 47+92	Lt.								
<p>*** Class HE II</p>										
	44+67 to 44+85	Lt.								
	45+92 to 46+27	Lt.								
	45+77 to 46+00	Lt.								
	44+50 to 45+00	Lt.								
	45+00 to 45+00	Lt.								
	45+00 to 47+00	Lt.	200							
	47+00 to 49+00	Lt.		12	19					
	45+77 to 46+02	Lt.								
	46+27 to 47+92	Lt.								
<p>TOTALS TO GENERAL SUMMARY</p>										



CLAY STREET CROSS SECTIONS
STA. 41+50 TO STA. 43+00

MUS - 208-0.00

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46

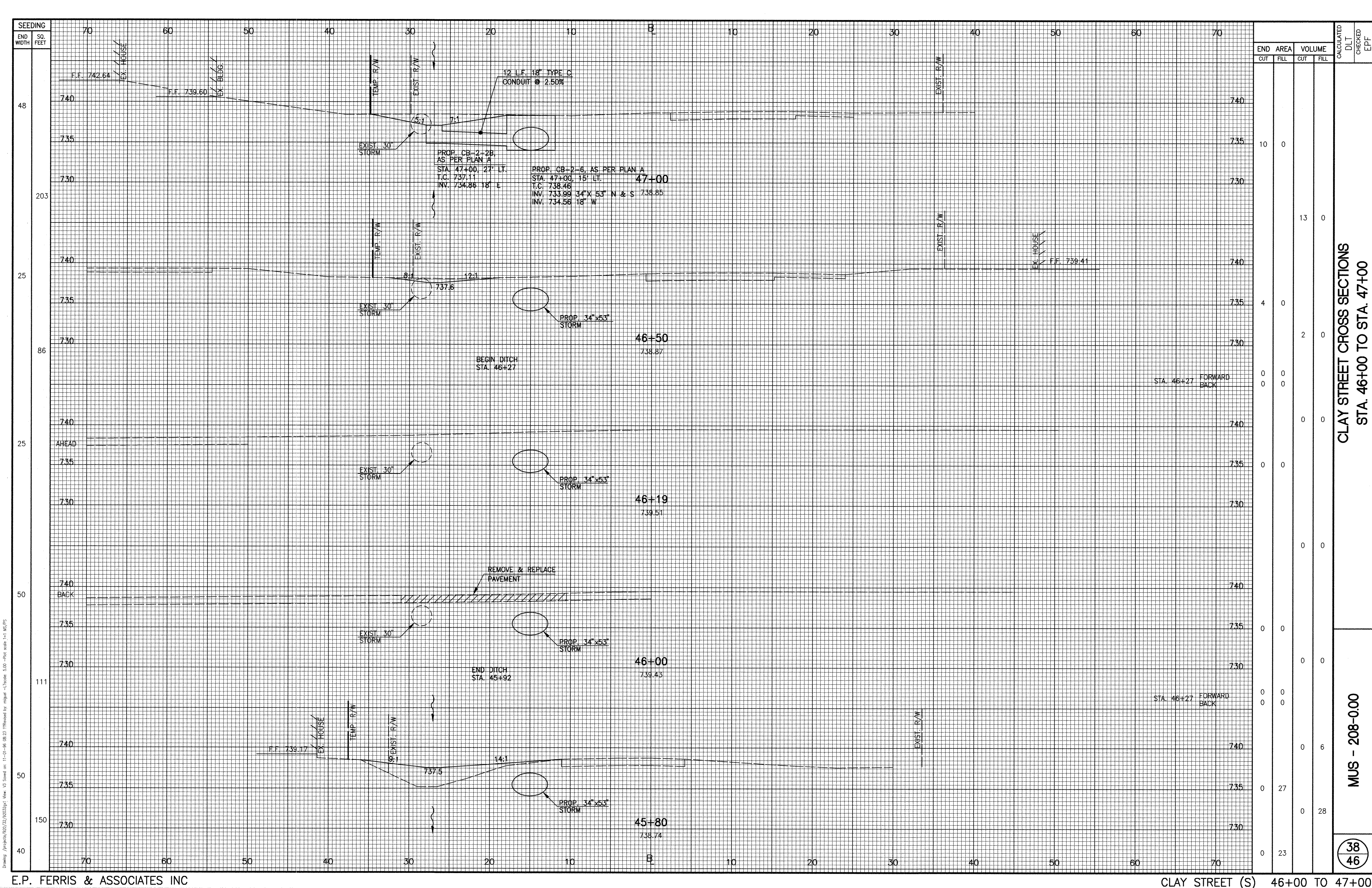


END WIDTH	SQ. FEET	END AREA		VOLUME		CALCULATED DLT	CHECKED EPF
		CUT	FILL	CUT	FILL		
40		0	23	0	41		
46		0	21	0	32		
42		0	18	0	46		
52		0	27	6	37		
54		6	14	6	27		
256		0	15				

CLAY STREET CROSS SECTIONS
 STA. 43+50 TO STA. 45+50

MUS - 208-0.00

37
46

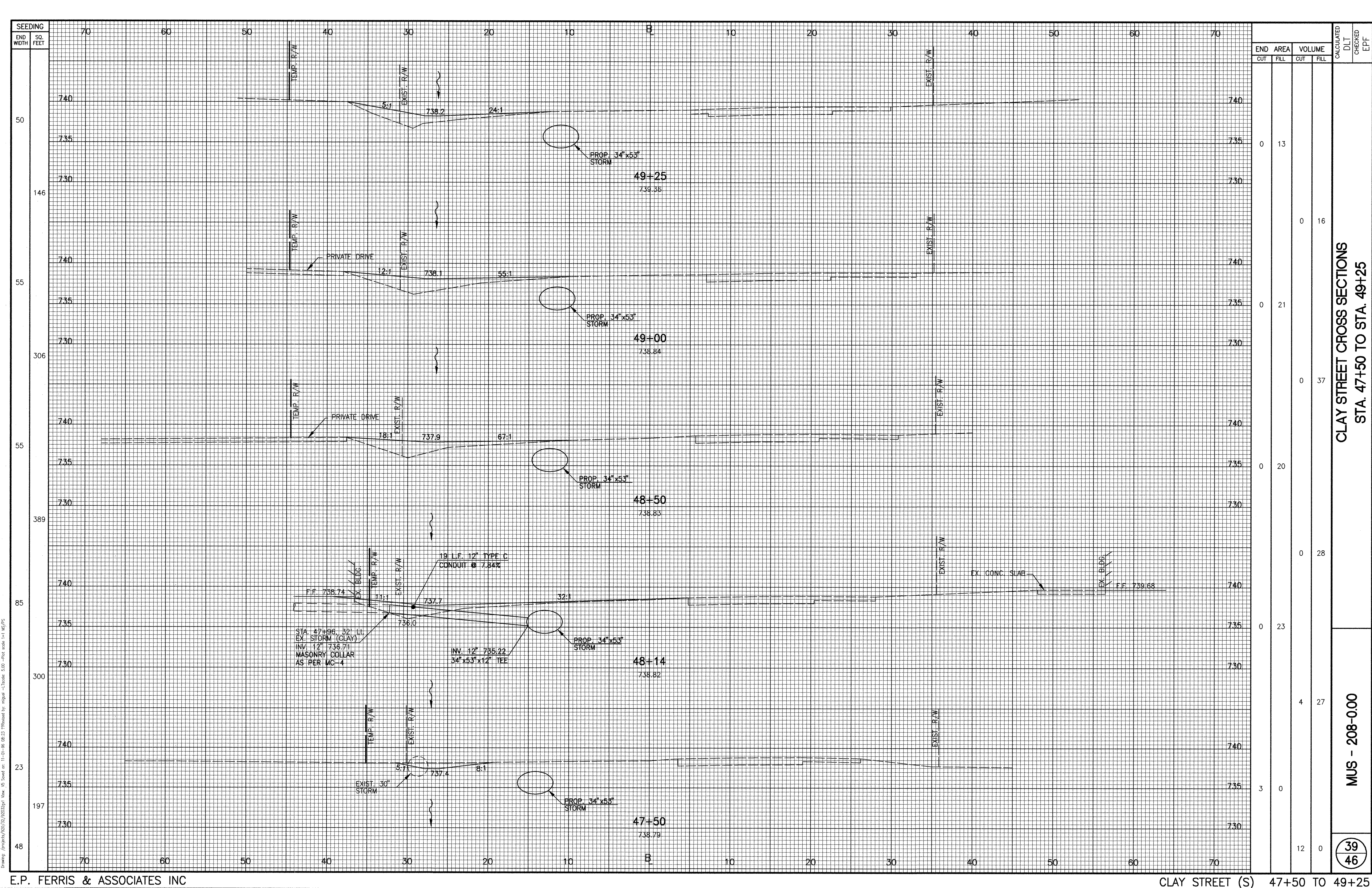


END WIDTH	SQ. FEET	END AREA		VOLUME		CALCULATED D.I.T.	CHECKED EPF
		CUT	FILL	CUT	FILL		
48		10	0				
203				13	0		
25		4	0				
86				2	0		
		0	0	0	0		
25		0	0				
		0	0				
50		0	0				
111		0	0				
		0	0				
50		0	27				
150				0	28		
40		0	23				

CLAY STREET CROSS SECTIONS
STA. 46+00 TO STA. 47+00

MUS - 208-0.00

38
46



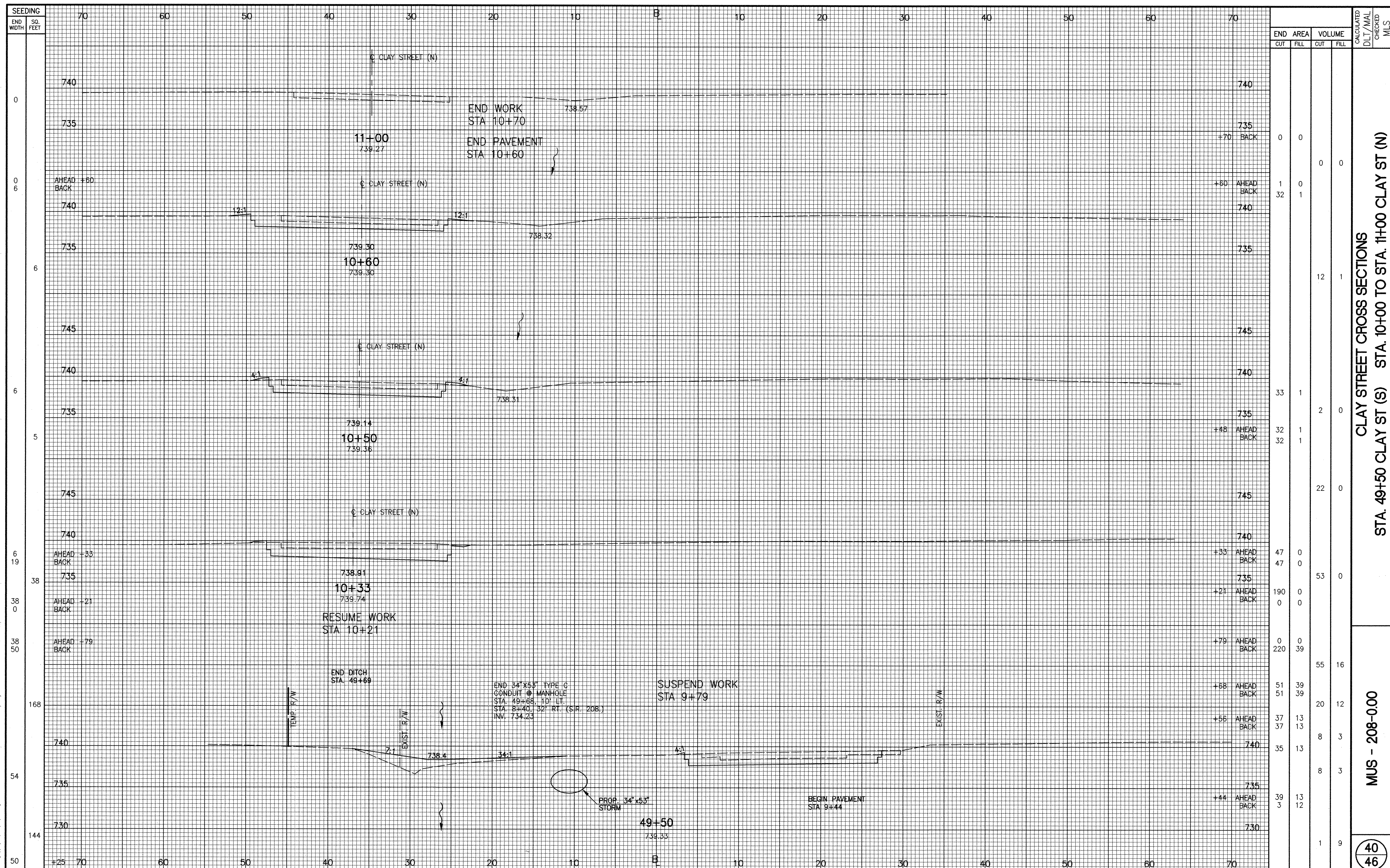
STATION	END AREA		VOLUME		CALCULATED	DLT	CHECKED	EPF
	CUT	FILL	CUT	FILL				
49+25	0	13	0	16				
49+00	0	21	0	37				
48+50	0	20	0	28				
48+14	0	23	4	27				
47+50	3	0	12	0				

CLAY STREET CROSS SECTIONS
STA. 47+50 TO STA. 49+25

MUS - 208-0.00

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46

Drawing: /projects/202/22/20220221.dwg, VS_Saved on: 11-01-08 08:23, Prepared by: mgpae -1, Title: 208-0.00 -Plot scale: 1=1 MS/PS
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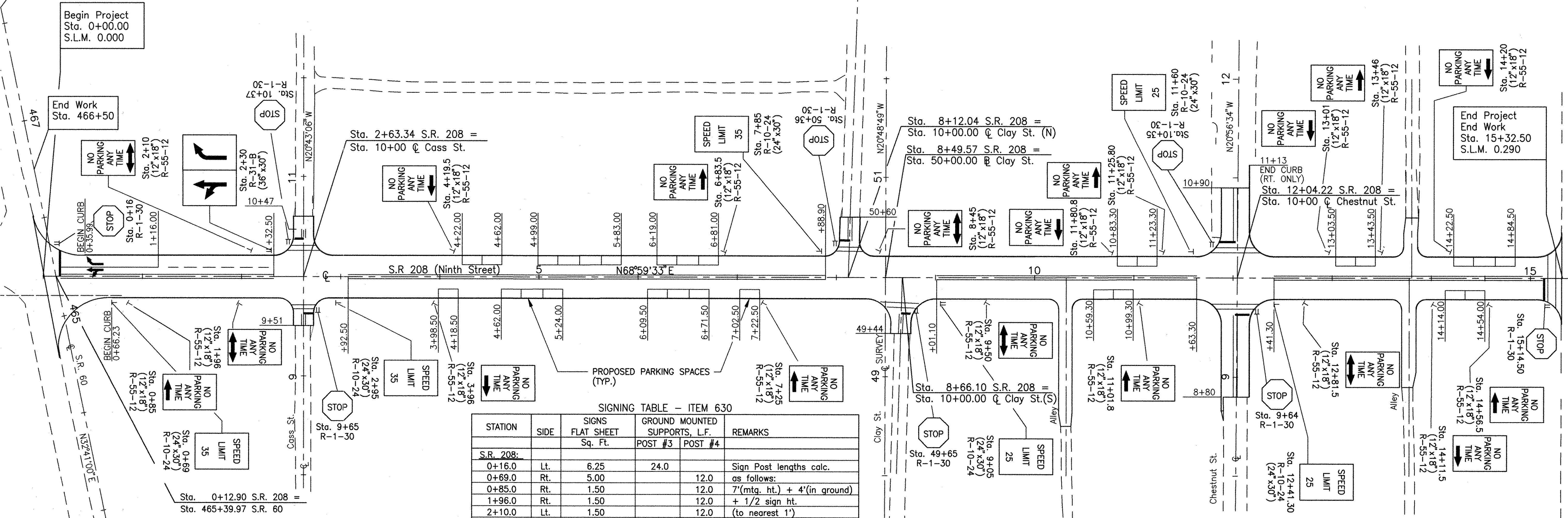
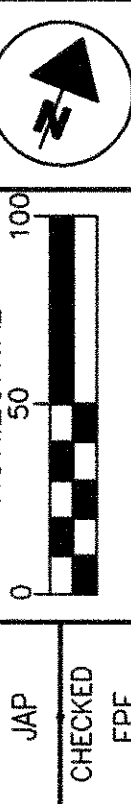
SEEDING END WIDTH	SQ. FEET	END AREA		VOLUME		CALCULATED D.I.T./MAL	CHECKED MLS
		CUT	FILL	CUT	FILL		
0		0	0	0	0		
0	6	1	0	32	1		
6				12	1		
6	5			33	1		
5				32	1		
6	19	47	0	47	0		
38	0	190	0	0	0		
38	50	0	0	220	39		
168				55	16		
54				51	39		
				37	13		
144				35	13		
				39	13		
50				1	9		

CLAY STREET CROSS SECTIONS
 STA. 49+50 CLAY ST (S) STA. 10+00 TO STA. 11+00 CLAY ST (N)

MUS - 208-0.00

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46

TRAFFIC CONTROL PLAN



SIGNING TABLE - ITEM 630

STATION	SIDE	SIGNS FLAT SHEET Sq. Ft.	GROUND MOUNTED SUPPORTS, L.F.		REMARKS
			POST #3	POST #4	
S.R. 208:					
0+16.0	Lt.	6.25	24.0		Sign Post lengths calc.
0+69.0	Rt.	5.00		12.0	as follows:
0+85.0	Rt.	1.50		12.0	7'(mtg. ht.) + 4'(in ground)
1+96.0	Rt.	1.50		12.0	+ 1/2 sign ht.
2+10.0	Lt.	1.50		12.0	(to nearest 1')
2+30.0	Lt.	7.50	24.0		
2+95.0	Rt.	5.00		12.0	
3+31.0	Rt.	1.50		12.0	
3+53.5	Lt.	1.50		12.0	
7+29.5	Lt.	1.50		12.0	
7+67.0	Rt.	1.50		12.0	
7+85.0	Lt.	5.00		12.0	
8+45.0	Lt.	1.50		12.0	
9+05.0	Rt.	5.00		12.0	
9+50.0	Rt.	1.50		12.0	
11+00.8	Lt.	1.50		12.0	
11+01.8	Rt.	1.50		12.0	
11+25.8	Lt.	1.50		12.0	
11+60.0	Lt.	5.00		12.0	
12+41.30	Rt.	5.00		12.0	
12+81.5	Rt.	1.50		12.0	
13+01.0	Lt.	1.50		12.0	
13+46.0	Lt.	1.50		12.0	
14+11.5	Rt.	1.50		12.0	
14+20.0	Lt.	1.50		12.0	
14+56.5	Rt.	1.50		12.0	
15+14.5	Rt.	6.25	24.0		
Cass Street:					
9+65.0	Rt.	6.25	24.0		
10+37.0	Lt.	6.25	24.0		
Clay Street:					
49+65.0	Rt.	6.25	24.0		
10+37.0	Lt.	6.25	24.0		
Chestnut St:					
9+64.0	Rt.	6.25	24.0		
10+35.0	Lt.	6.25	24.0		
TOTALS		114.50	216.0	288.0	

NOTE: QUANTITIES CARRIED TO GENERAL SUMMARY, SHEET 7

SIGN REMOVAL - ITEM 630

STATION	SIDE	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	SIGNING, MISC.: REMOVAL OF GROUND MOUNTED CONCRETE STREET SIGN AND REERECTION, AS PER PLAN	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION
S.R. 208:					
0+28	Lt.	1			
1+02	Rt.				2
1+91	Rt.				1
2+49	Lt.	1			
2+76	Rt.	1			
5+65	Lt.				1
7+98	Lt.	1			
8+30	Lt.	1			
8+49	Rt.				1
8+84	Rt.	1			
11+55	Rt.	1			
11+81	Rt.			1	
11+83	Lt.				1
11+87	Lt.	1			
12+22	Rt.	1			
12+23	Lt.	1			
13+31	Rt.	1			
13+69	Lt.				1
13+86	Rt.				1
14+56	Lt.				1
14+94	Lt.	1			
15+11	Rt.	1			
15+30	Rt.		2		
CLAY ST.					
42+76	Lt.				1
42+81	Lt.				1
46+25	Lt.				1
46+27	Lt.				1
TOTALS		13	2	1	13

NOTE: QUANTITIES CARRIED TO GENERAL SUMMARY, SHEET 7

ITEM 644 PAVEMENT MARKINGS

STATION FROM	STATION TO	LANE LINE L.F.	CENTER LINE L.F.	CHANNELIZING LINE L.F.	STOP LINE L.F.	CROSSWALK LINE L.F.	PARKING LOT STALL MARKING L.F.	LANE ARROW EACH
2+32.50	2+92.50		24		20	112		
2+92.50	7+88.90		496				566	
7+88.90	9+01.00		45		22	115		
9+01.00	11+63.30		262				134	
11+63.30	12+41.30		139		28	160		
12+41.30	15+07.50		266				232	
15+07.50	15+32.50		7		22	105		
TOTALS		117 OR 0.022 MI.	1456 OR 0.276 MI.	100	121	492	932	2

NOTE: QUANTITIES CARRIED TO GENERAL SUMMARY, SHEET 7

TRAFFIC CONTROL PLAN

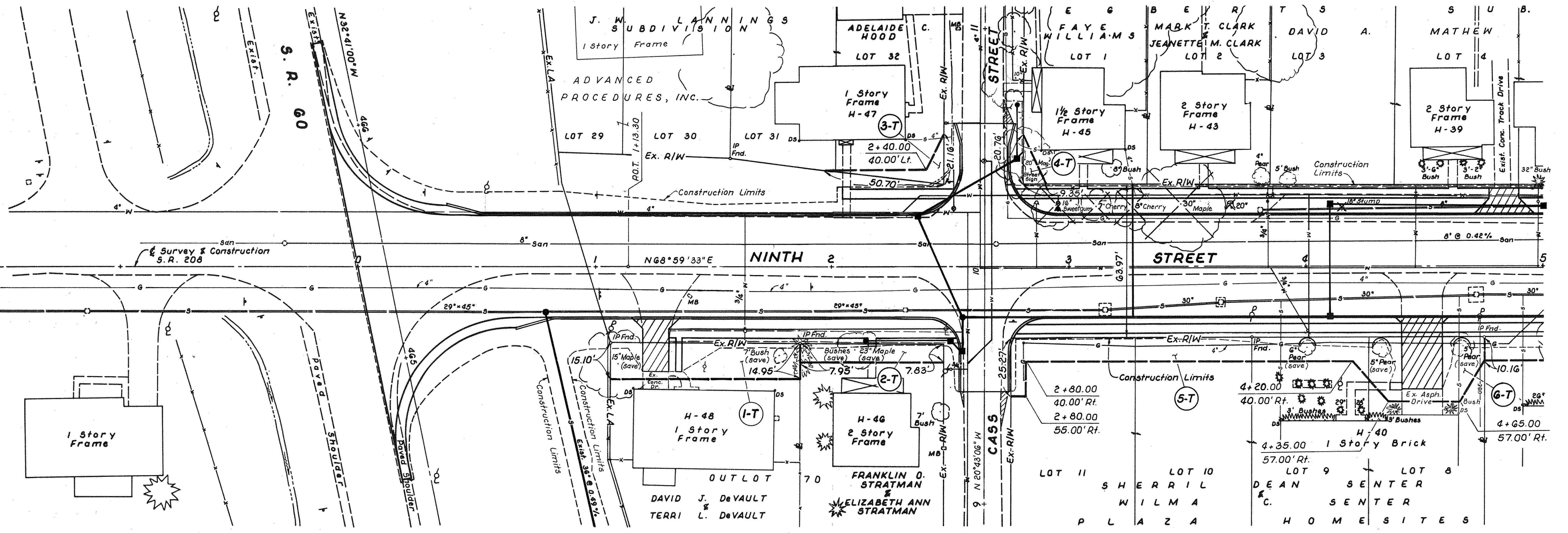
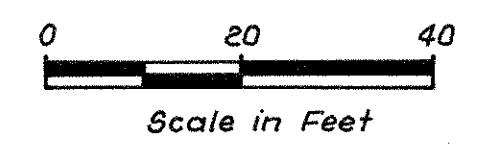
MUS-208-0.00

FMA REGION	STATE	PROJECT
5	OHIO	

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MUSKINGUM COUNTY
MUS - 208 - 0.00

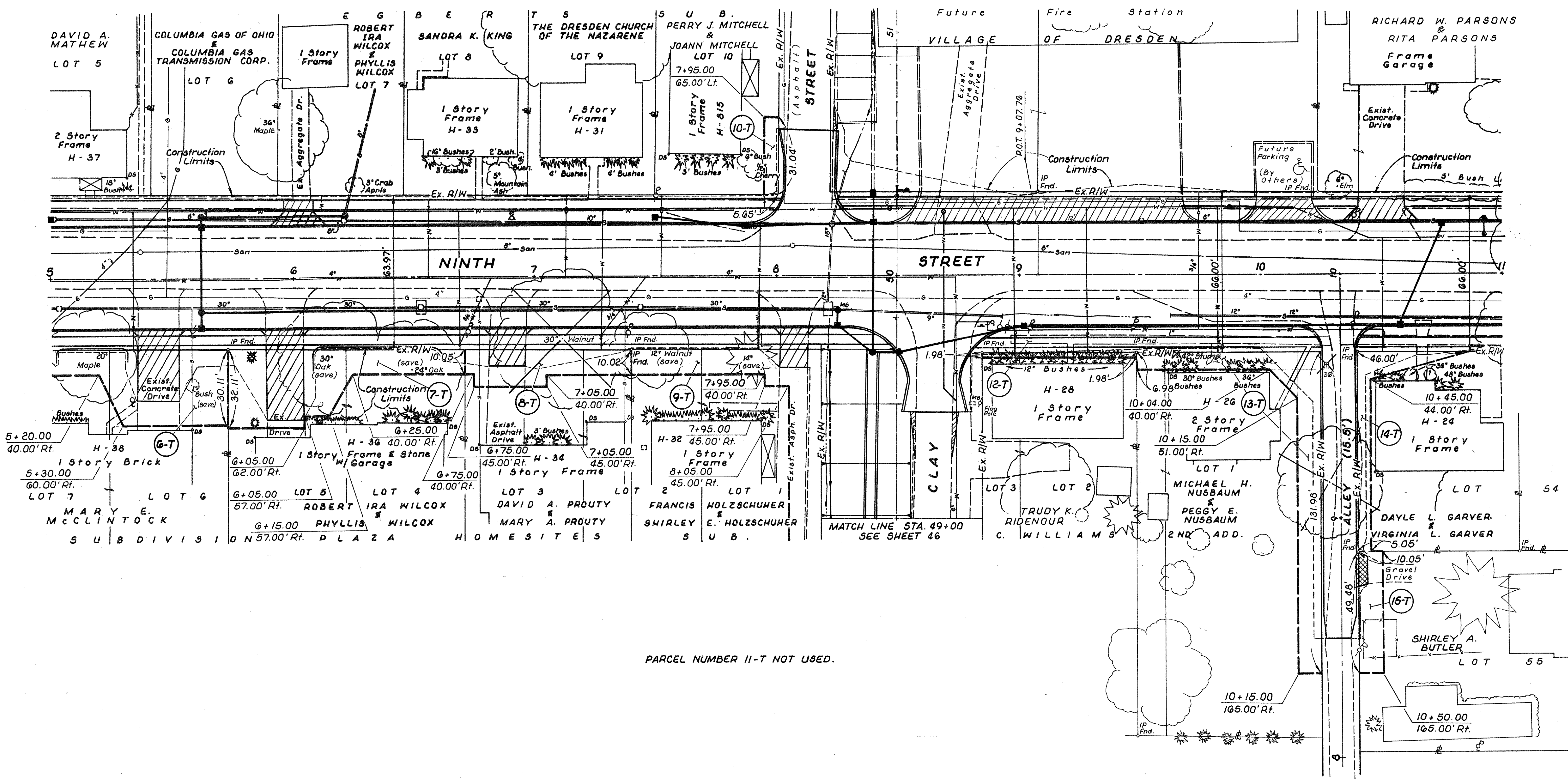
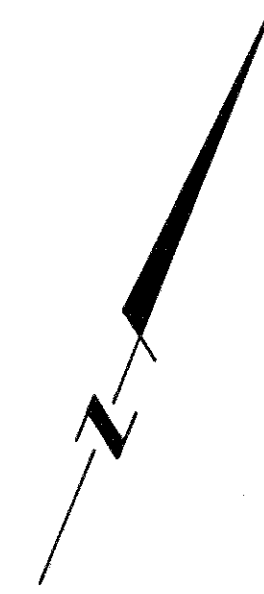
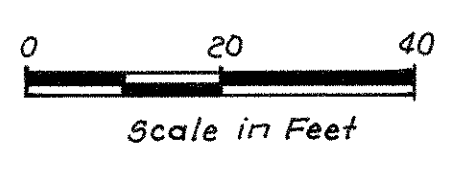
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FHWA REGION	STATE	PROJECT
5	OHIO	

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MUSKINGUM COUNTY
MUS - 208 - 0.00



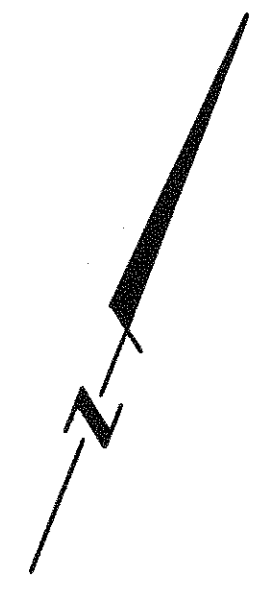
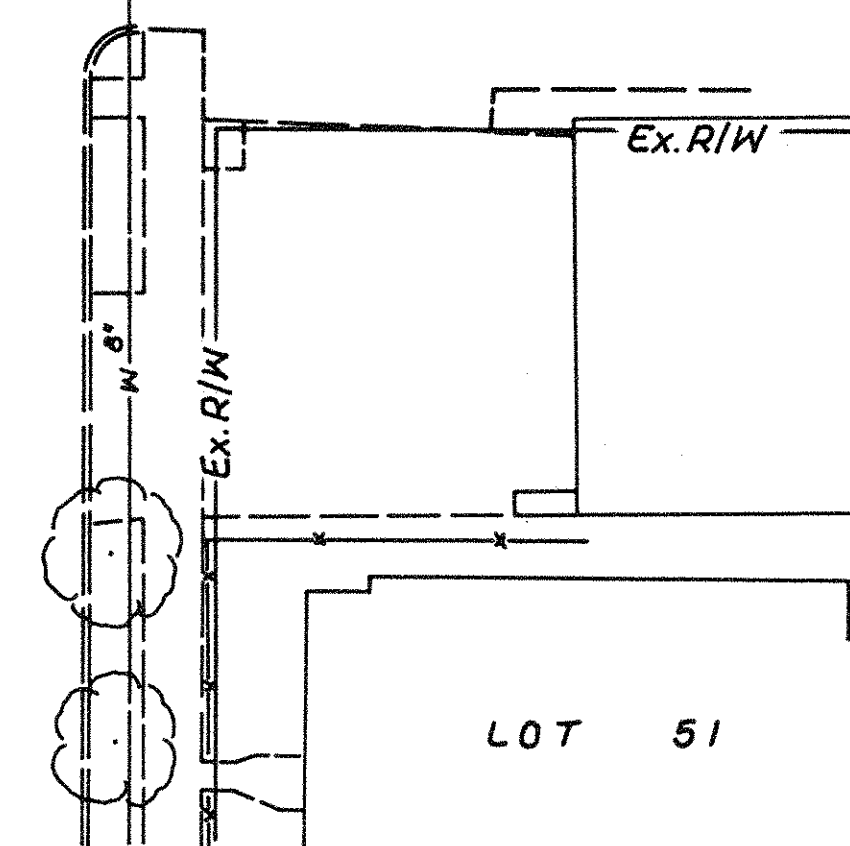
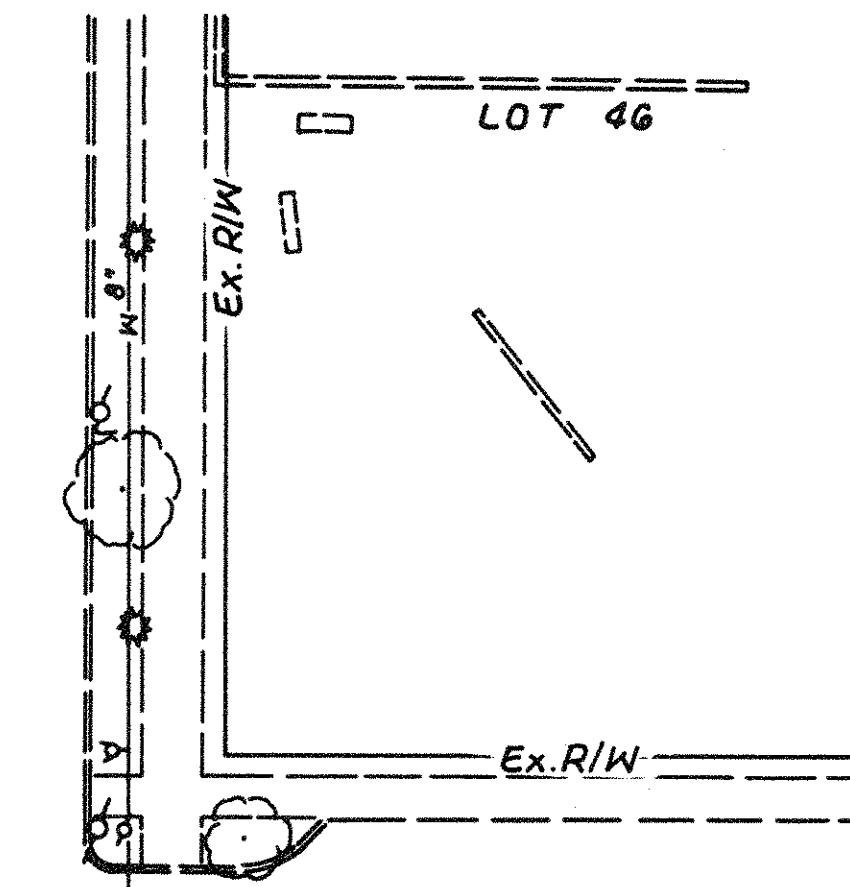
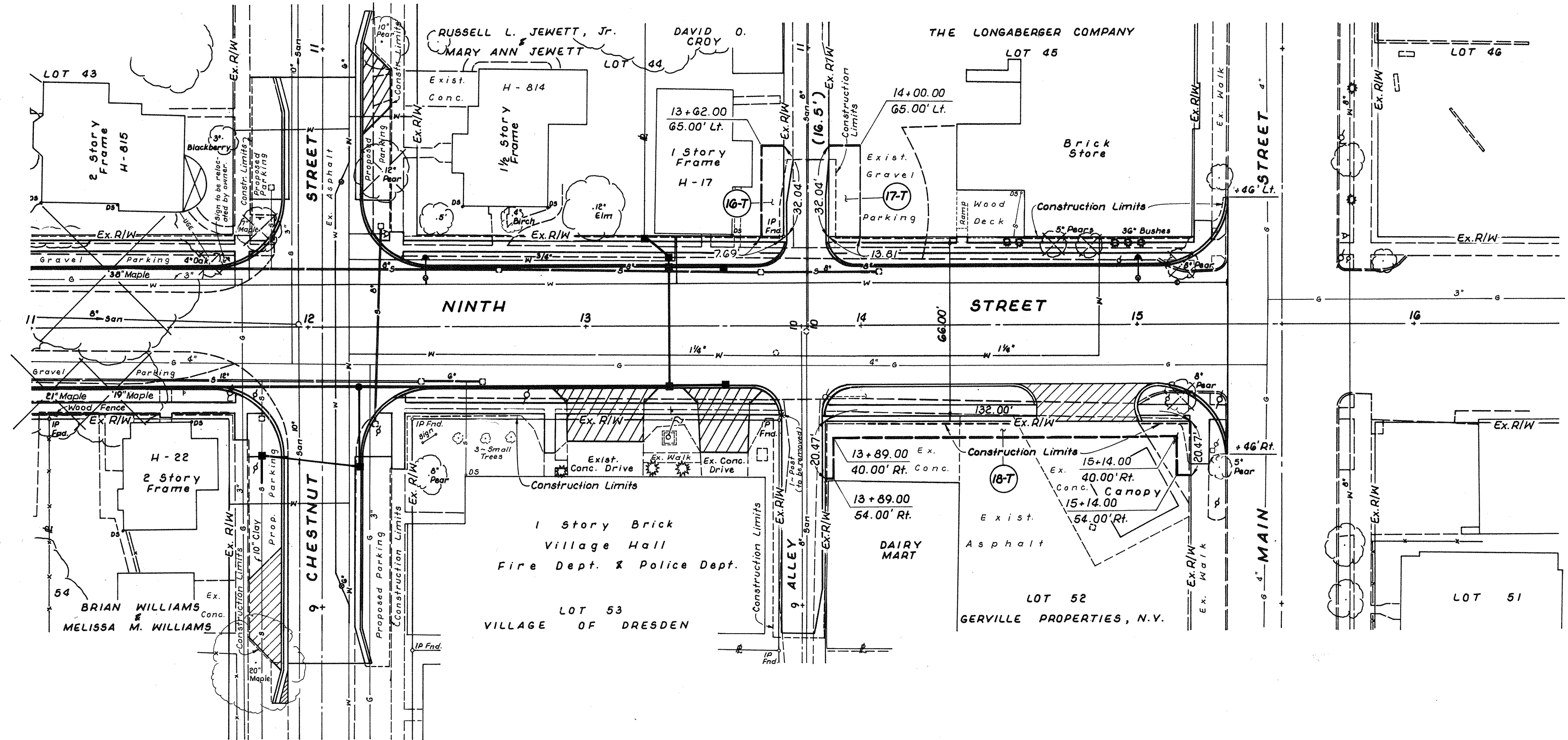
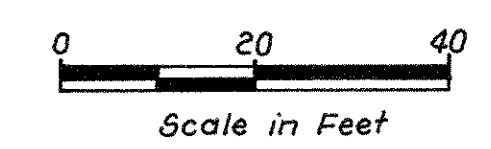
PARCEL NUMBER 11-T NOT USED.

FHWA REGION	STATE	PROJECT
5	OHIO	

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MUSKINGUM COUNTY
MUS-208-0.00

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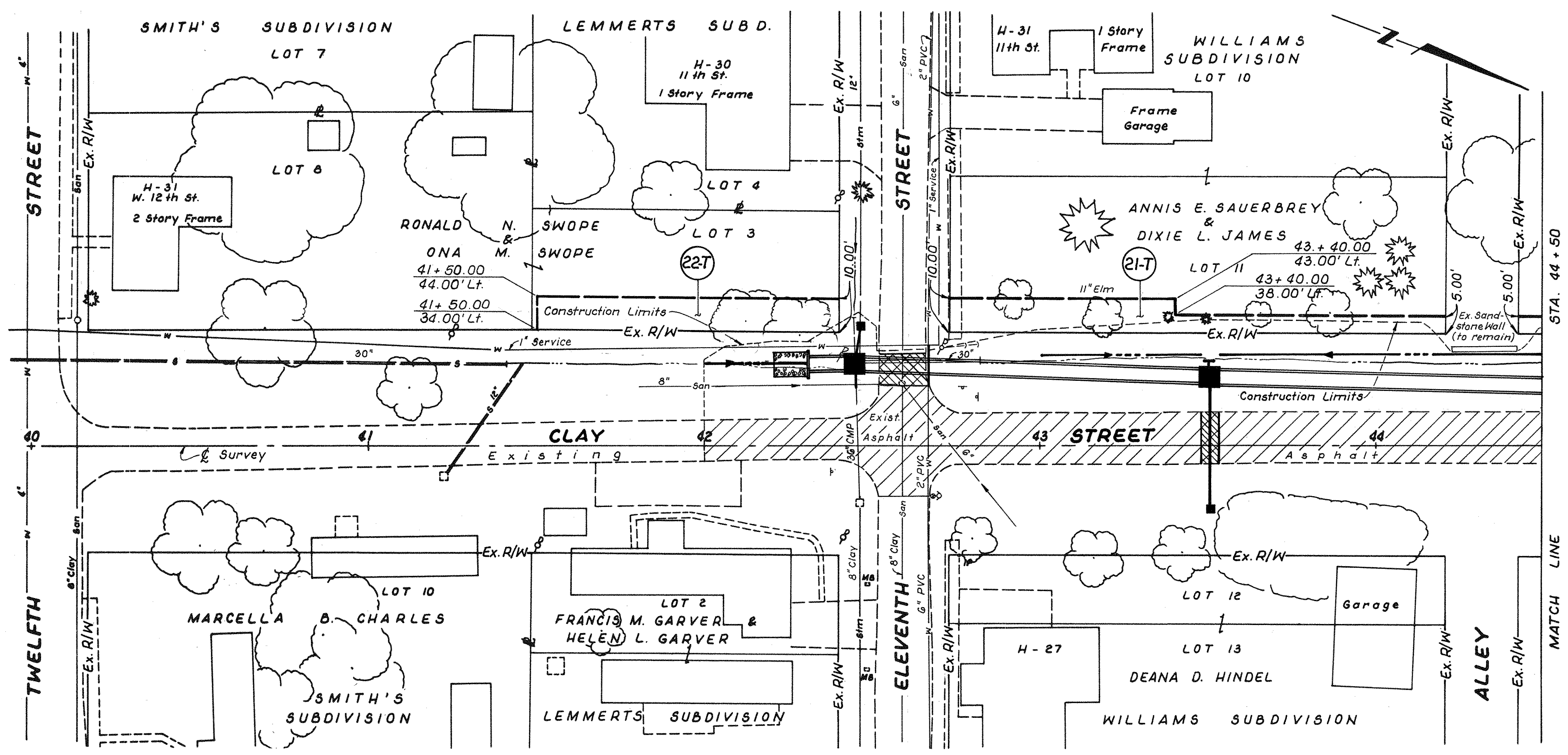
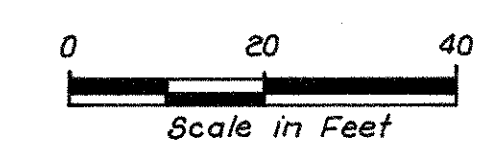


FHWA REGION	STATE	PROJECT	
5	OHIO		

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MUSKINGUM COUNTY
MUS-208-0.00

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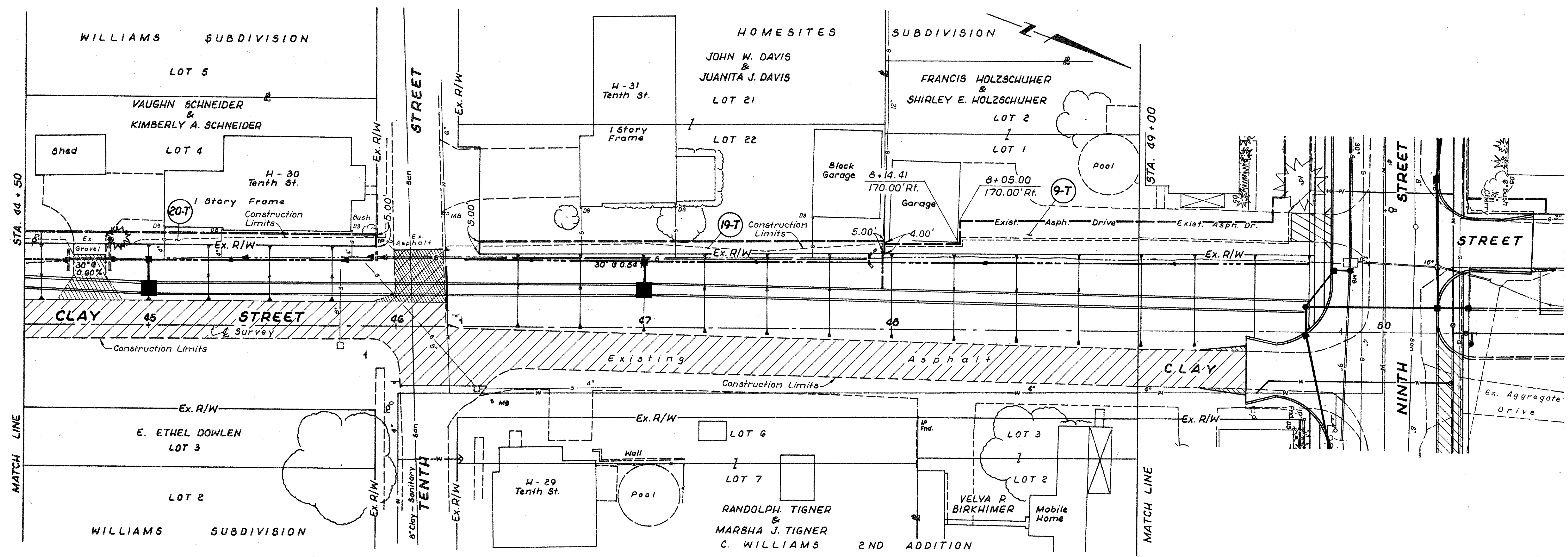
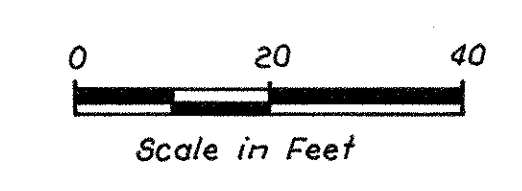


FHWA REGION	STATE	PROJECT
5	OHIO	

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MUSKINGUM COUNTY
MUS - 208 - 0.00

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EXPLANATION OF SYMBOLS AND TERMS USED ON BORING LOGS

SAMPLING DATA

- Blocked-in "SAMPLES" column indicates sample was attempted and recovered within this depth interval.
- Sample was attempted within this interval but not recovered.
- 2/5/9 - The number of blows required for each 6-inch increment of penetration of a "Standard" 2" O.D. split-barrel sampler, driven a distance of 18 inches by a 140-pound hammer freely falling 30 inches. Addition of one of the following symbols indicates the use of a split-barrel other than the 2" O.D. sampler:
 - 2S - 2 1/2" O.D. split-barrel sampler.
 - 3S - 3" O.D. split-barrel sampler.
- P - Shelby tube sampler, 3" O.D., hydraulically pushed.
- R - Refusal of sampler in very-hard or dense soil, or on a resistant surface.
- 50-2" - Number of blows (50) to drive a split-barrel sampler a certain number of inches (2), other than the normal 6-inch increment.
- S/D - Sampler (split-barrel) advanced by weight of drill rods (D), or S/H - combined weight of rods and drive hammer (H).

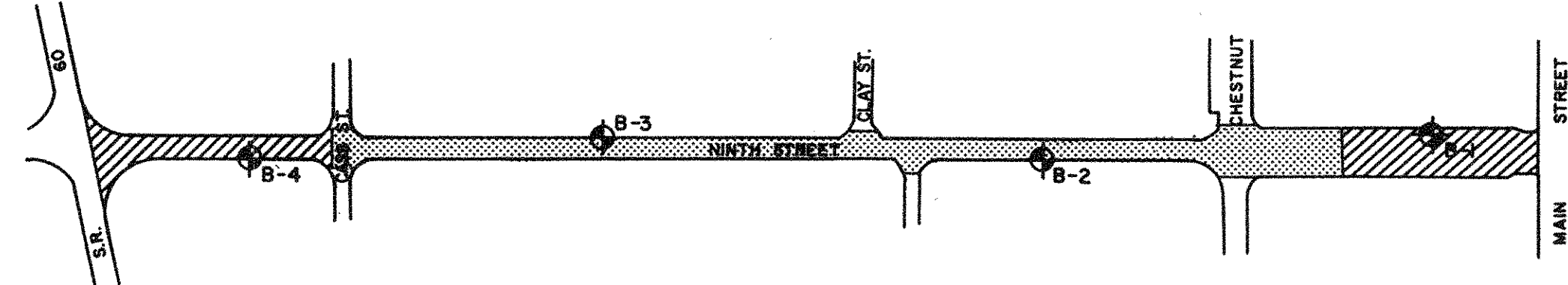
SOIL DESCRIPTIONS - All soils have been classified basically in accordance with the Unified Soil Classification System, but this system has been augmented by the use of special adjectives to designate the approximate percentages of minor components as follows:

Adjective	Percent by Weight
trace	1 to 10
little	11 to 20
some	21 to 35
"and"	36 to 50

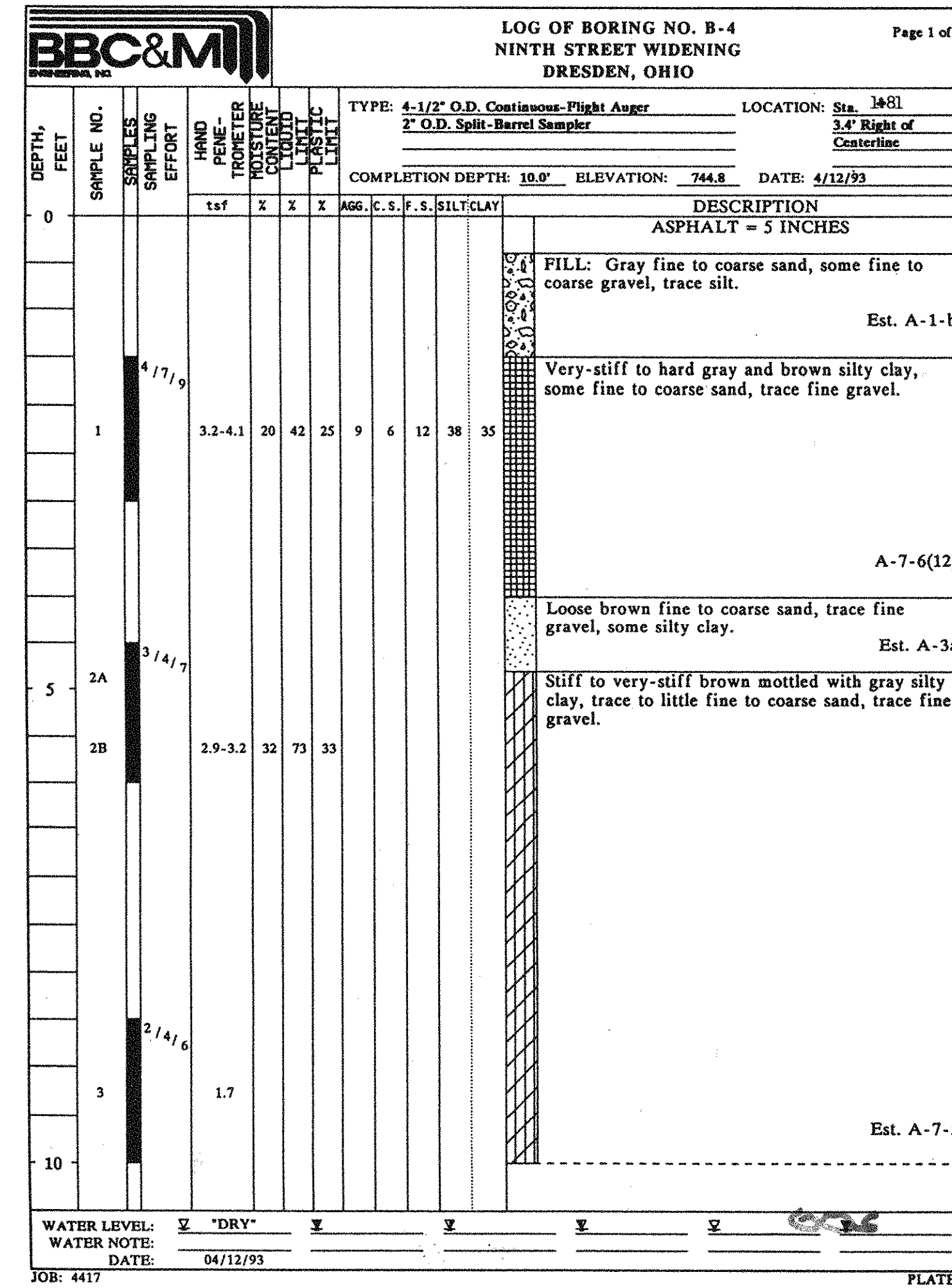
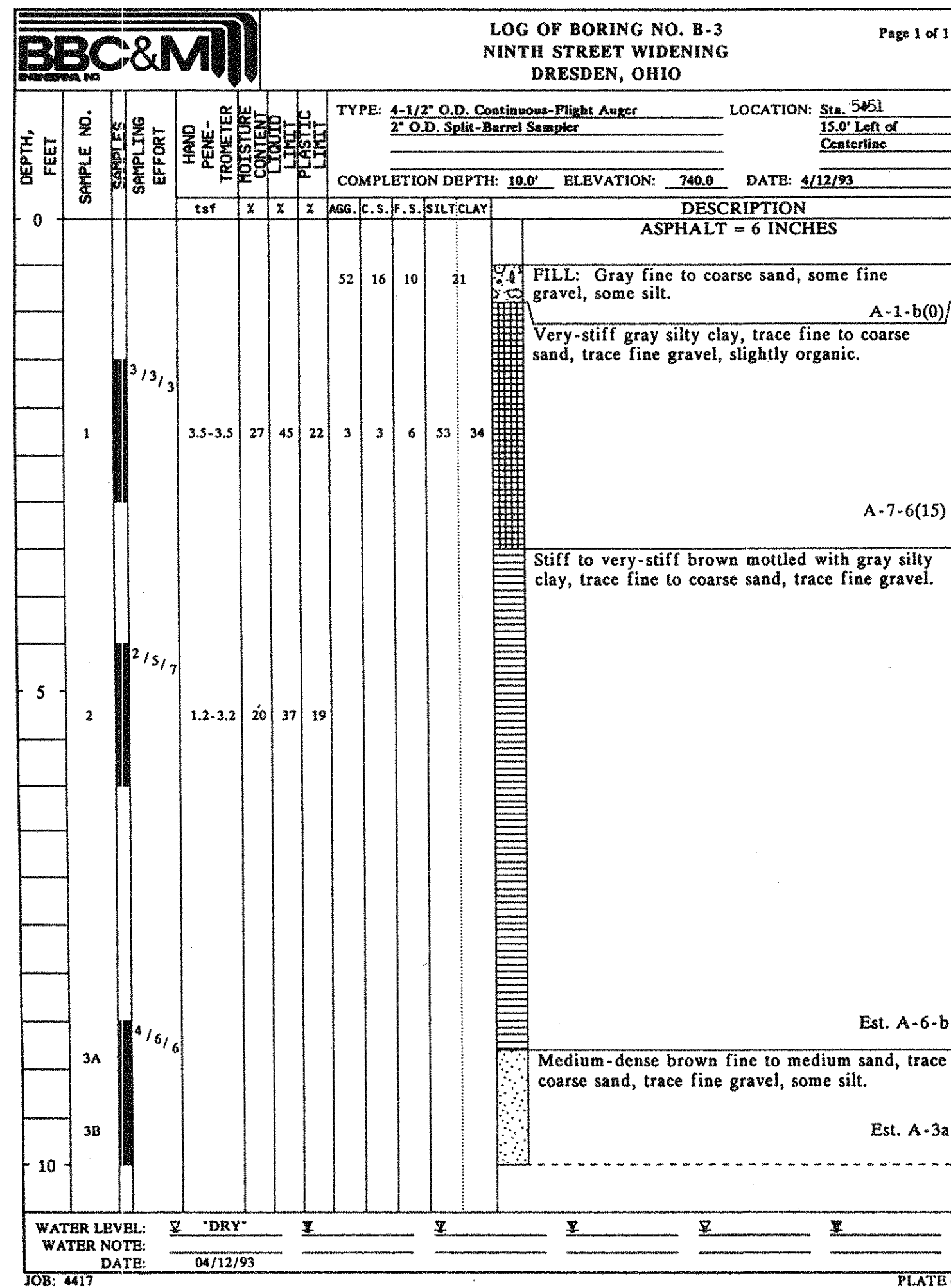
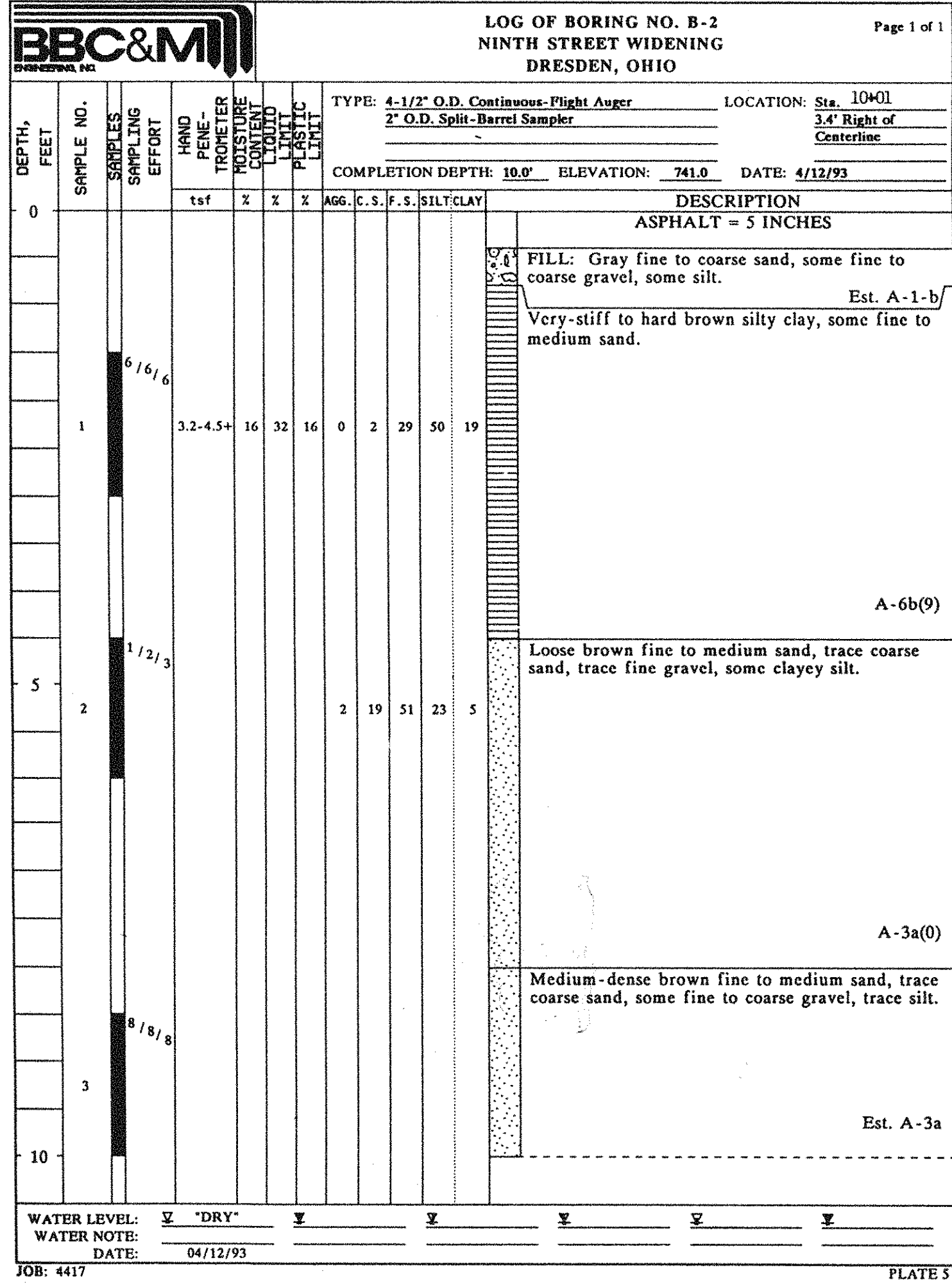
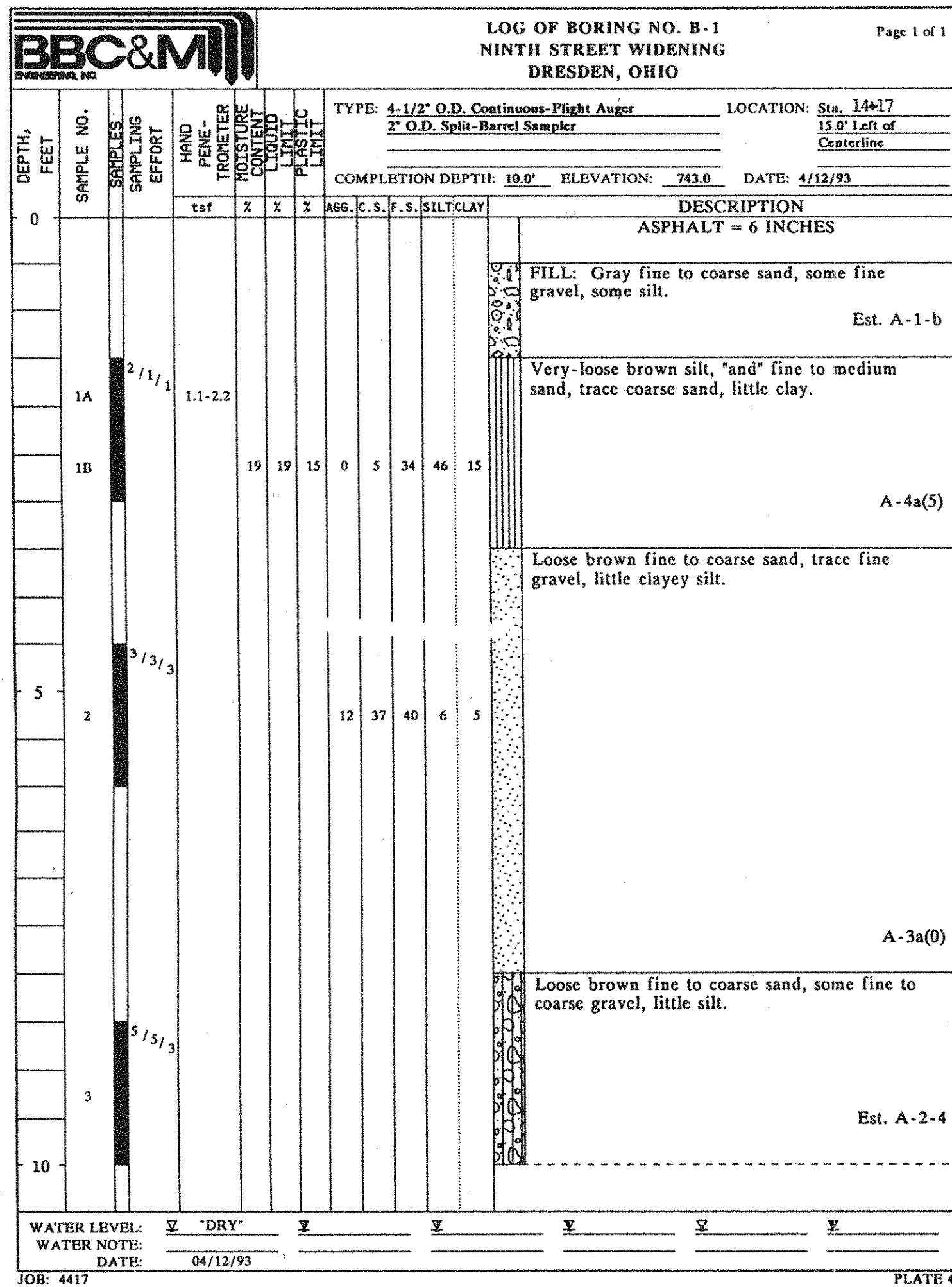
The following terms are used to describe density and consistency of soils:

Term (Granular Soils)	Blows per Foot
Very-loose	Less than 5
Loose	5 to 10
Medium-dense	11 to 30
Dense	31 to 50
Very-dense	Over 50

Term (Cohesive Soils)	Qu (tsf)
Very-soft	Less than 0.25
Soft	0.25 to 0.5
Medium-stiff	0.5 to 1.0
Stiff	1.0 to 2.0
Very-stiff	2.0 to 4.0
Hard	Over 4.0



PLAN OF BORINGS
NINTH STREET WIDENING
DRESDEN, OHIO
SCALE 1" = 150'



CALCULATED
CHECKED

SOIL PROFILE

MUS-208-0.00

