

CALC. BY	BY MB	DATE 10/84	FED RD DIVISION	STATE	PROJECT	
CHKD. BY	JO	10/84	5	OHIO	MED-71-2250	

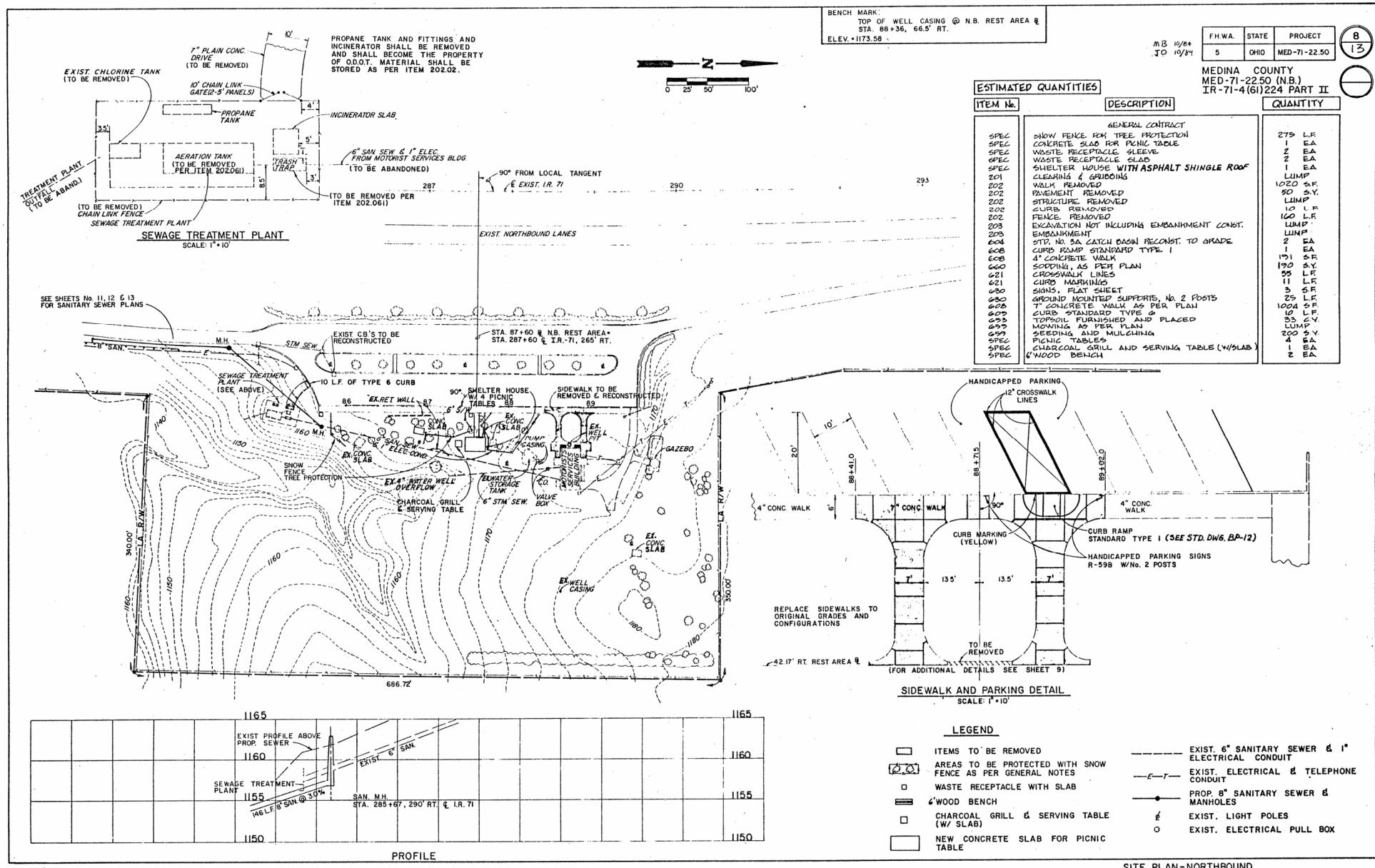
MEDINA COUNTY
MED-71-2250 (N.B.)
IR-71-4(6)224 PART II

SHEET NUMBER													ITEM	TOTAL	UNIT	DESCRIPTION		
2	3	4	5	6	7	8	9	10	11	12	13					<u>GENERAL CONTRACT</u>		
													SPEC	1	EACH	MOTORIST SERVICES BUILDING INTERIOR MODIFICATIONS (EXCEPT ELECT. & PLUMBING WORK)		
													SPEC	1	EACH	REST AREA WATER RESERVOIR TANK CLEAN-OUT (EXCEPT ELECT. & PLUMBING WORK)		
													SPEC	275	UNFT	SNOW FENCE TREE PROTECTION		
													SPEC	1	EACH	CONC. SLAB FOR PICNIC TABLE		
													SPEC	4	EACH	PICNIC TABLES		
													SPEC	2	EACH	WASTE RECEPTACLE SLEEVE		
													SPEC	1	EACH	CHARCOAL GRILL AND SERVING TABLE (WITH SLAB)		
													SPEC	2	EACH	WASTE RECEPTACLE SLAB		
													SPEC	2	EACH	WOOD BENCH		
													SPEC	1	EACH	SHELTER HOUSE WITH ASPHALT SHINGLE ROOF		
													LUMP	201	LUMP	CLEARING AND GRUBBING		
													LUMP	1020	SQFT	WALK REMOVED		
													LUMP	50	SQ.YD	PAVEMENT REMOVED		
													LUMP	202	LUMP	STRUCTURES REMOVED		
													LUMP	10	LIN.FT	CURB REMOVED		
													LUMP	160	LIN.FT	FENCE REMOVED		
													LUMP	203	LUMP	EXCAVATION, NOT INCLUDING EMBANKMENT		
													LUMP	203	LUMP	EMBANKMENT		
													LUMP	632	1000	B11		
													LUMP	603	2443	UN.FT	6" SANITARY SEWER, AS PER PLAN	
													LUMP	2	4	2	MANHOLE MODIFIED, AS PER PLAN	
													LUMP	604	8	EACH	STANDARD NO. 3A CATCH BASIN RECONSTRUCTED TO GRADE	
													LUMP	605	2	EACH	CURB STANDARD TYPE G	
													LUMP	605	10	LIN.FT	CURB RAMP, STANDARD TYPE 1	
													LUMP	606	1	EACH	CURB RAMP, STANDARD TYPE 1	
													LUMP	606	1004	SQ.FT.	7" CONCRETE WALK, AS PER PLAN	
													LUMP	606	151	SQ.FT.	4" CONCRETE WALK	
													LUMP	653	53	CU.YD	TOPSOIL FURNISHED AND PLACED	
													LUMP	660	150	SQ.YD	SODDING, AS PER PLAN	
													LUMP	659	1	LUMP	MOWING, AS PER PLAN	
													LUMP	659	200	SQ.YD	SEEDING AND MULCHING	
													LUMP	621	55	LIN.FT	CROSSWALK LINES	
													LUMP	621	11	LIN.FT	CURB MARKING	
													LUMP	630	3	SQ.FT.	SIGNS, FLAT SHEET	
													LUMP	25	25	LIN.FT.	GROUND MOUNTED SUPPORTS, NO. 2 POSTS	
																	MAINTAINING TRAFFIC	
														614	LUMP	CONSTRUCTION LAYOUT STAKES		
														623	LUMP	MOBILIZATION		
														624	LUMP	FIELD OFFICE		
																TOTAL BID GENERAL CONTRACT		

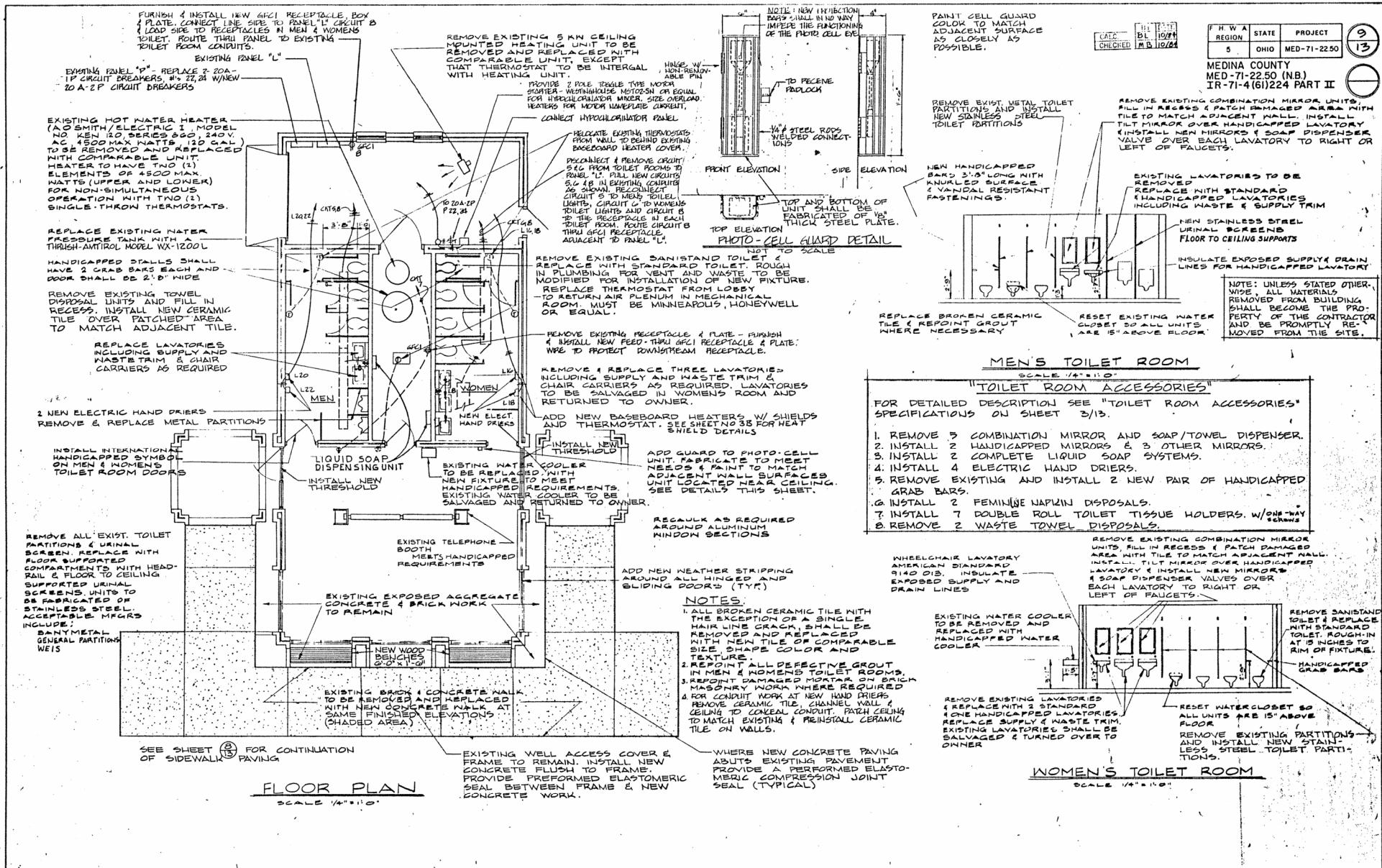
BY	DATE		
CALC. BY	MAB	10/84	
CHKD. BY	JZO	10/84	

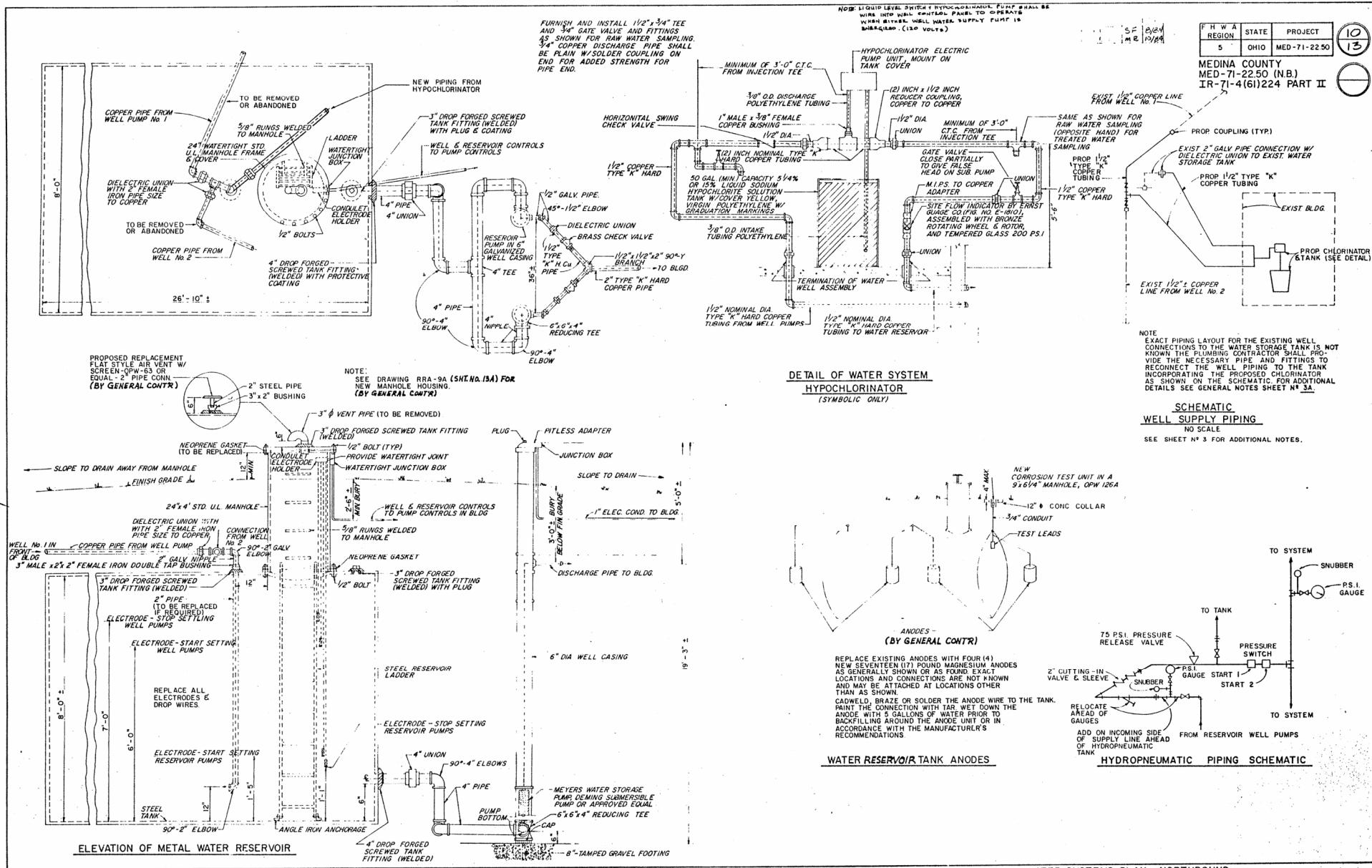
FED HQ DIVISION	STATE	PROJECT	
5	OHIO	MED-71-22.50	

MEDINA COUNTY
MED-71-22.50 (N.B.)
IR-71-4(61)224 PART II



SITE PLAN-NORTHBOUND

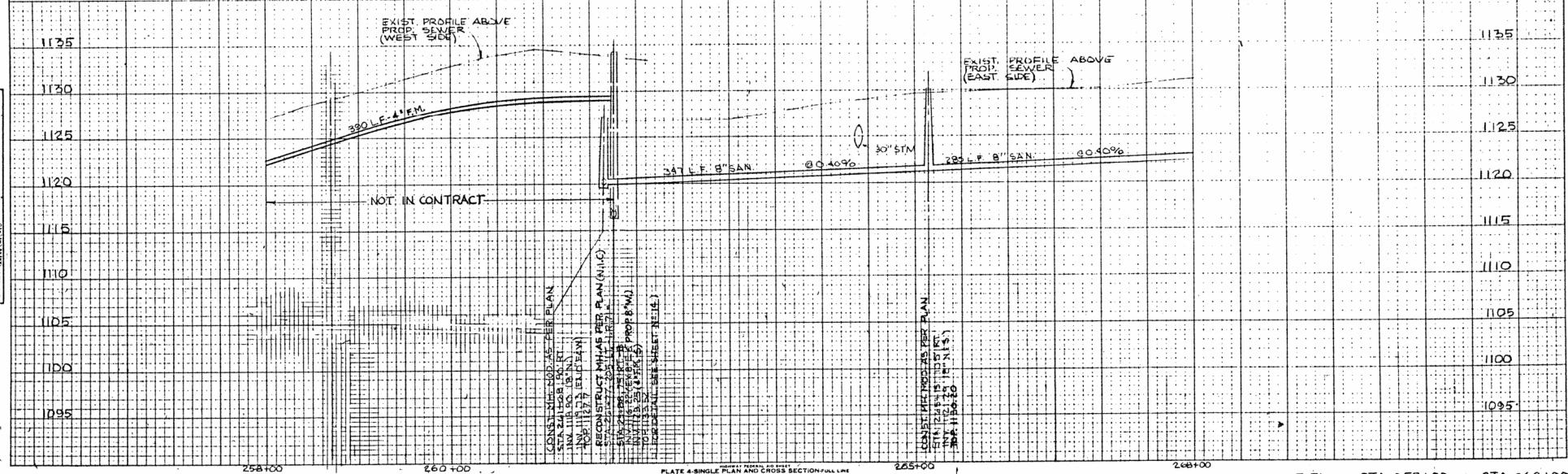




WATER SYSTEMS PLAN – NORTHBBOUND

FINAL SURVEY
RECORDED
IN THIS BOOK
NO. 1000 DATED 10/10/00 BY JOHN SMITH FOR JOHN SMITH

ORIGINAL	NUMBER	1	NAME	JOHN
SURVEY	INCHES	1	ADDRESS	1234567890
BOOK	FEET	1	PHONE	1234567890
NO.	INCHES	1	STREET	1234567890



MATCH LINE SEE SHT. STA. 258 +00

CALC BY		DATE		PFD RD DIVISION		STATE	PROJECT	
MAB		10/84				OHIO	MED-71-22.50	
CHKD BY		JRO		10/84				
				5				

MEDINA COUNTY
MED-7I-22.50 (N.B.)
IR-7I-4(6I)224 PART II

BENCH MARK: TOP OF WELL CASING @ N.B. 12ST AREA # STA. 88+30, 66.5' RT.
ELEV. = 1173.58

I-71 STA. 258+00 to STA 268+00

DATE	2/27/04
FINAL SURVEY	✓
INVESTIGATED	✓
PILOTTED	✓
NOTE BOOK	✓
TEMPLATE	✓
AREA	✓
ANALYSIS	✓
ANALYSIS COMMENTS	✓

1140

1135

1130

1125

1120

1115

1110

1105

1100

268+00

270+00

275+00

1140

1135

1130

1125

1120

1115

1110

1105

1100

CONST. H.L. AS PER PLAN
STA. 270+00 E.P. 115' INV.
TOP 115-308 (B.N. 45)

CONST. H.L. AS PER PLAN
STA. 275+00 E.P. 115' INV.
TOP 115-308 (B.N. 45)

EXIST. PROFILE ABOVE
PROP. SEWER

340' E.P.M.

345 L.F. 8" SAN 6.0% SLOP

345 L.F. 8" SAN 6.0% SLOP

345 L.F. 8" SAN 6.0% SLOP

275 L.F. 8" SAN 8.0% SLOP

9.0' S.L.F. 8" SAN 8.0% SLOP

1140

1135

1130

1125

1120

1115

1110

1105

1100

AREA B STA. 50+36, 66.5' ELEV.
ELEV. = 1173.50

ROADWAY FEDERAL AID SHEET

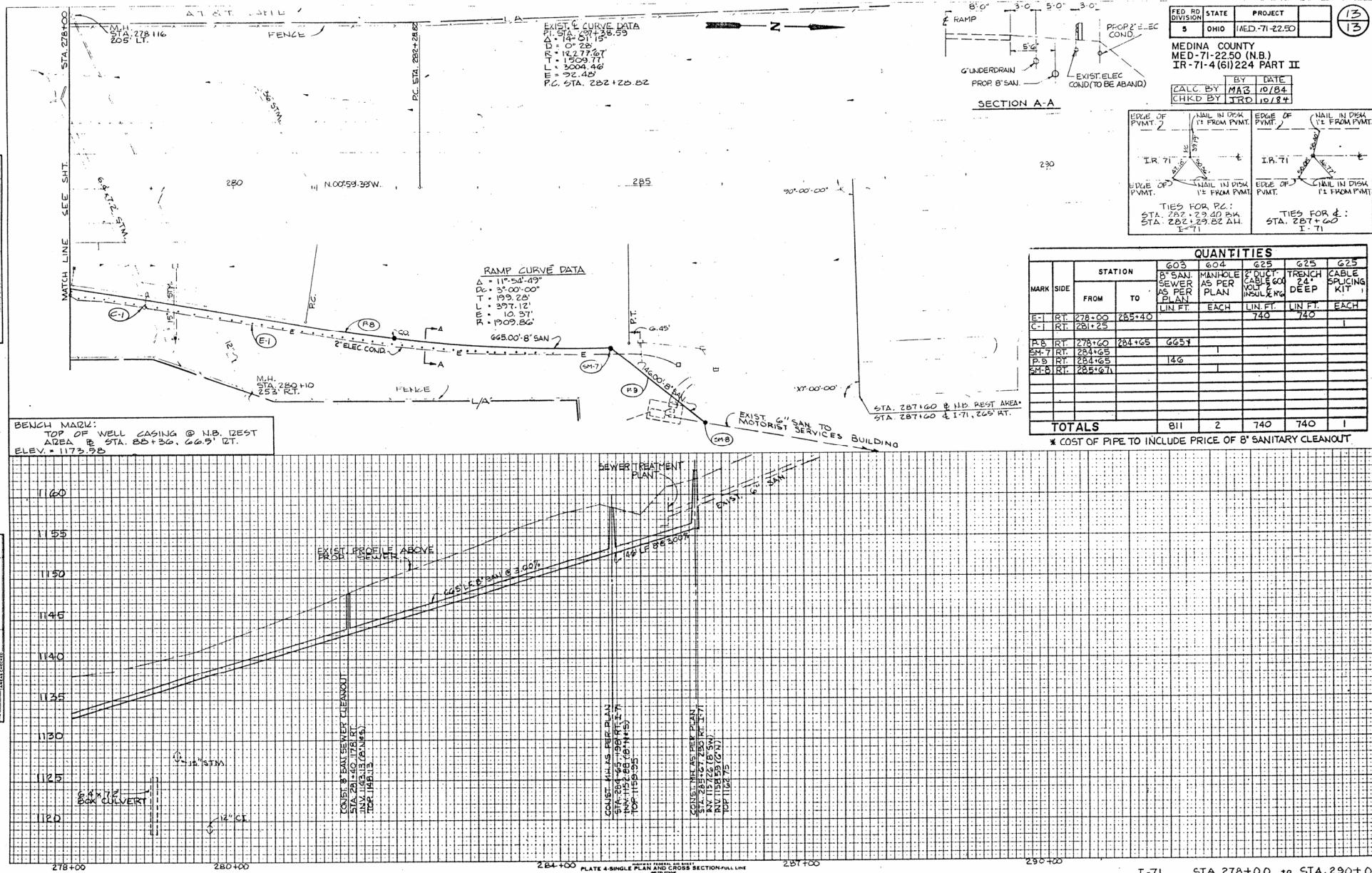
Hand-drawn survey map showing a property line and a fence line. The map includes the following details:

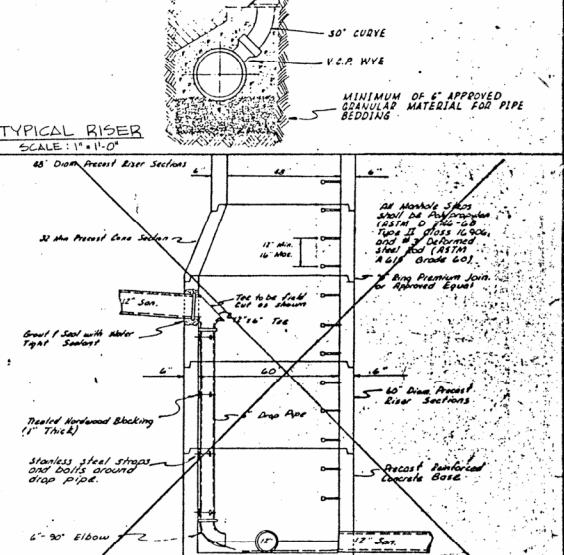
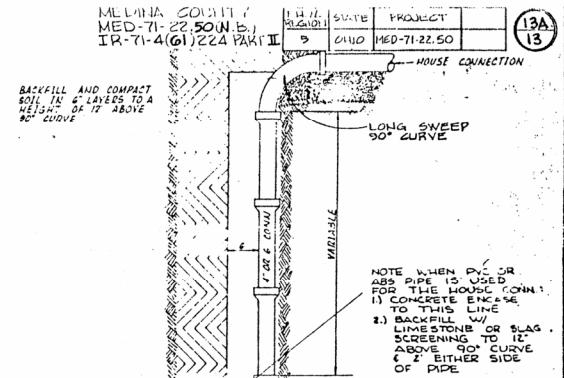
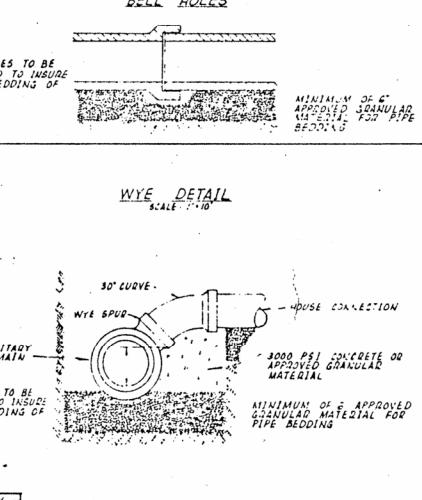
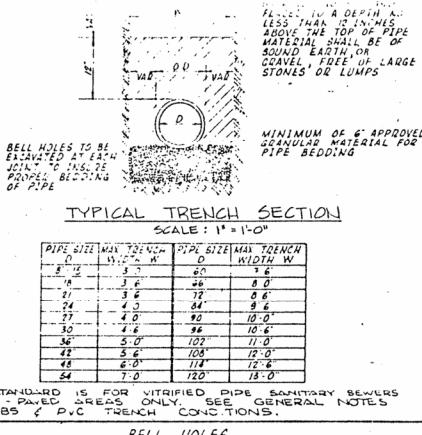
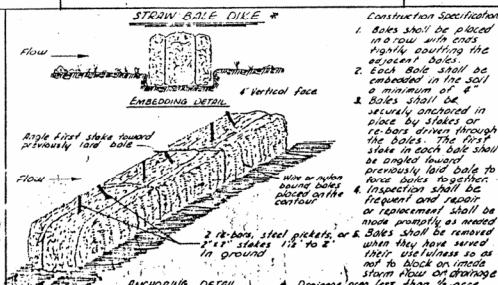
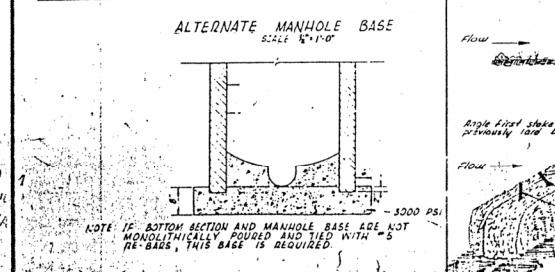
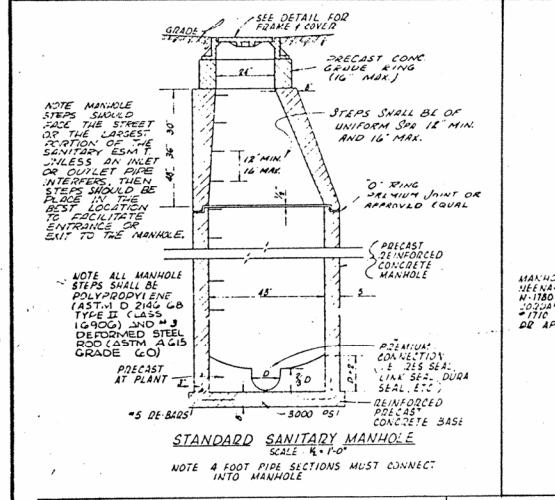
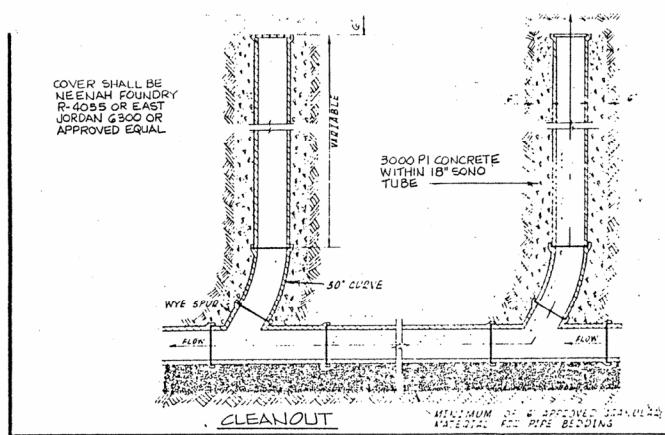
- Top Left:** "SEE SHEET 11" and "S-4, 266100".
- Top Center:** "M.L. STA. 272+20 204' L.L." and "L/A".
- Top Right:** "N" and "S" with an arrow.
- Left Side:** "MATCH LINE".
- Bottom Center:** "M.L. STA. 272+20 204' L.L." and "L/A".
- Center:** "N. 00° 59' 39" W." and "275".
- Left Boundary:** "270" and "1500' B" SAN. with points (P.3), (BM.3), (P.4), and (BM.4).
- Right Boundary:** "275" and "275.00' B" SAN. with points (K5), (BM.5), (K6), (BM.6), and (K7).
- Bottom Boundary:** "345.00' B" SAN. and "310.00' B" SAN.
- Other:** "FENCE" and "FENCE" with a checkmark.

CLLC BY	BY	LATE	FED RD DIVISION	STATE	PROJECT
CHRD BY	MA3	10/84	5	OHIO	IAED-71-22-50
	JRO	10/84			

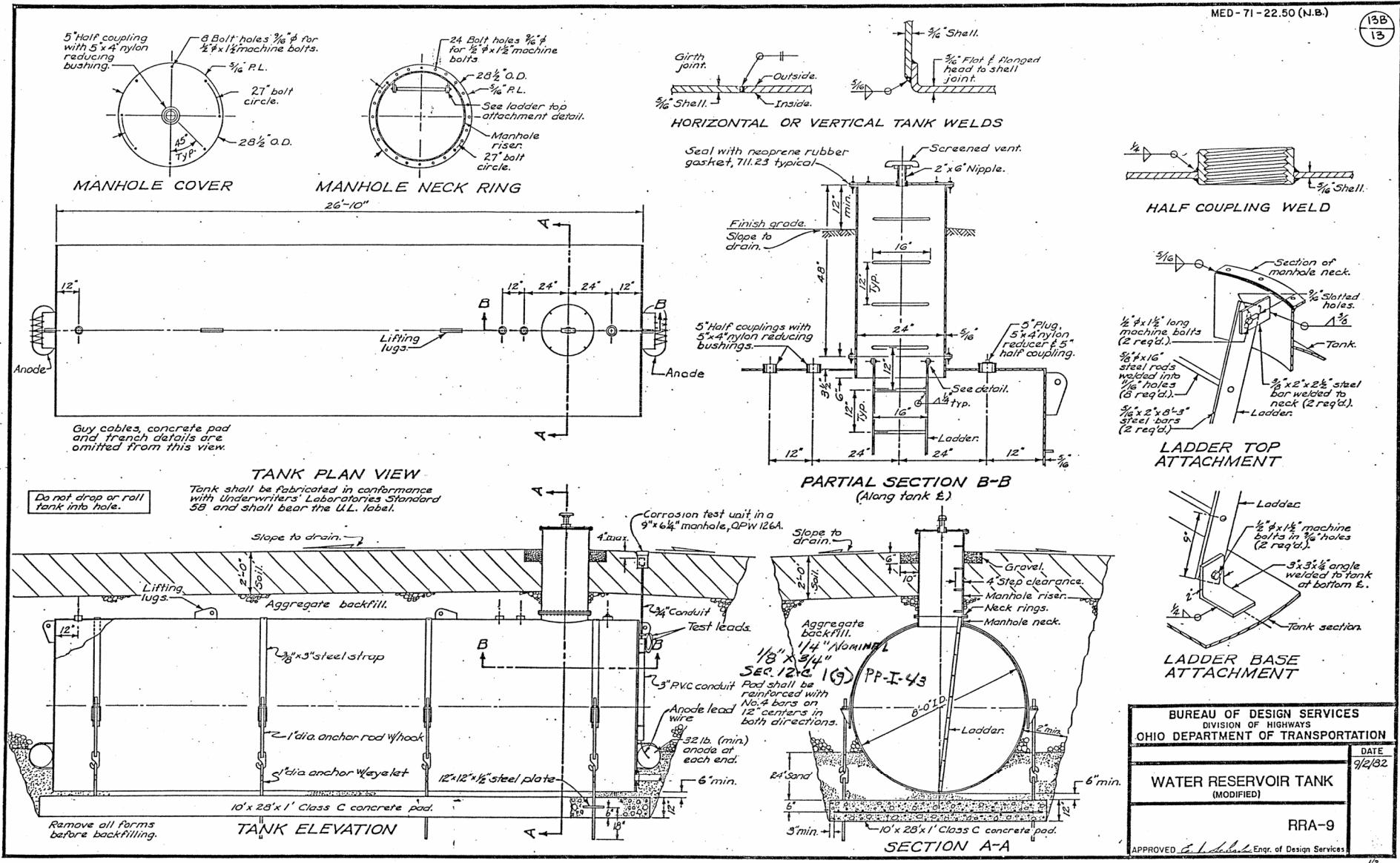
MEDINA COUNTY
MED-71-22.50 (N.B.)
IR-71-4(61)224 PART II

MARK	SIDE	STATION		604	603
		FROM	TO	MANHOLE MOD AS PER PLAN	8" SAN. SEWER AS PER PLAN
P-3	RT	268+00	268+65	EACH	LIN. FT.
SM-3	RT	268+65			65
P-4	RT	268+65	272+10		
SM-4	RT	272+10			345
SM-5	RT	272+10	275+20		
SM-6	RT	275+20			310
P-6	RT	275+20	278+00		
SM-6	RT	278+00			275
P-7	RT	278+95	278+00		
					5
TOTALS				4	1000





13B
13



STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
MED-71-22.50
SAFETY REST AREA REHABILITATION
MEDINA COUNTY
BRUNSWICK TOWNSHIP

CONVENTIONAL SIGNS

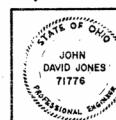
County Line _____ Township Line _____
Section Line _____ Corporation Line _____ or 
Fence Line (existing) (proposed)
Center Line 352 353
Trees  Stumps  (to be removed)  
Utility Poles Telephone  Power  Light 
Guardrail (existing) (proposed)

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES	2,3,3A,3B,4
MAINTENANCE OF TRAFFIC	5, 5A
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SITE PLAN	8
BUILDING INTERIOR PLAN & ELECTRICAL DETAILS	9
WATER SYSTEM IMPROVEMENTS	10
SANITARY SEWER PLAN/PROFILE	11-13
OTHER DETAIL DRAWINGS	13A,13B,13C

LINE DATA

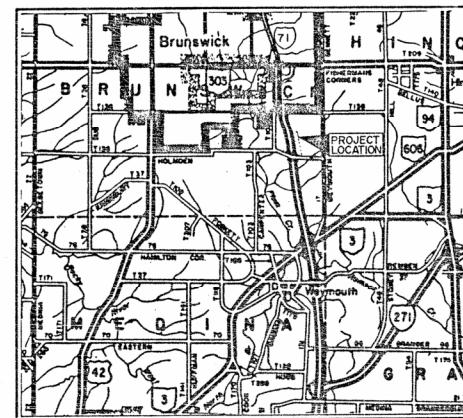
NET LENGTH OF PROJECT = 0.00 LIN.FT. OR 0.000 MILE
BEGIN WORK STA. 261 + 68
END WORK STA. 289 + 70
TOTAL NET LENGTH OF WORK = 2802 LIN.FT. OR 0.531 MILE



Plan Prepared By:

JOHN DAVID JONES & ASSOCIATES, INC.
2162 FRONT STREET
CUYAHOGA FALLS, OHIO 44122

Project: _____
Date of Letting _____ 19____, Contract No. _____
LD0300 Rev. II-1-78



LOCATION MAP

SCALE IN MILES

Portion to be improved _____ UUUUUU
State & Federal Routes _____

SCALES

Plan _____ Profile: _____ Vertical _____
Site Plans: _____, and _____

SUPPLEMENTAL SPECIFICATIONS

SEE PART

Approved May 22, 2002 Macie M. Parry
Date 5/22/02 District Deputy Director of Transportation

Approved 12/20/2008
Date 2/7/05 Engineer of Design Services

Approved Wayne H. Kumble
Date 2-25-85 Chief Engineer, Planning and Design

Approved Charen T Smith
Date 2/15/85 Director, Department of Transportation

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR

DATE

GENERAL

GENERAL NOTES

BENCH MARK & BASE LINE
A BENCH MARK AND BASE LINE WILL BE VERIFIED BY D.O.O.I. PERSONNEL.

FIELD OFFICE (PART I & PART II)
THE GENERAL CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 400 SQUARE FEET OF FLOOR SPACE. PAYMENT SHALL BE AT THE LUMP SUM PRICE BID FOR ITEM 619 FIELD OFFICE.

CLOSURE OF REST AREA TO PUBLIC
THE REST AREA WILL BE CLOSED TO THE TRAVELING PUBLIC FOR THE TIME OF CONSTRUCTION.

STORAGE OF MATERIALS & EQUIPMENT
ALL MATERIAL, EQUIPMENT AND VEHICLES SHALL TYPICALLY BE STORED WITHIN THE CONFINES OF THE REST AREA PARKING LOTS (BUT AT NO TIME CLOSER THAN 30 FEET FROM THRU LANES) AT THE DIRECTION OF THE ENGINEER.

SEWAGE TREATMENT PLANT REMOVAL ACTIVITIES
SEWAGE TREATMENT PLANT REMOVAL ACTIVITIES SHALL BE CONFINED WITHIN THE R/W AND/OR CONSTRUCTION EASEMENT LIMITS. THE CONTRACTOR MAY AT HIS OWN RISK AND COST RENT PRIVATE PROPERTY FOR THIS USE.

UNDERGROUND UTILITIES
THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 DRC.

UTILITIES NOTIFICATION
AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UNDERGROUND UTILITY PROTECTION SERVICES AT 800-362-2164, AND THE OWNERS OF ALL UNDERGROUND UTILITY FACILITIES SHOWN IN THE PLANS.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

THE FOLLOWING UTILITIES WILL BE AFFECTED BY THIS PROJECT:

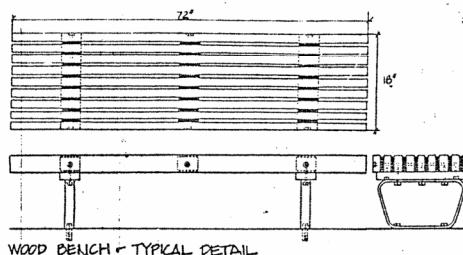
OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 3
909 N. CLARK STREET
ASHLAND, OHIO 44805 (419) 324-1511
ATTN: DAVE MOLLENKAMP

AMERICAN TELEPHONE AND TELEGRAPH
3833 WETMORE ROAD
MEDINA, OHIO 44256 (216) 725-4552

GENERAL TELEPHONE COMPANY OF OHIO
6223 NORWALK ROAD
MEDINA, OHIO 44256 (216) 722-9580

OHIO EDISON COMPANY
117 PUBLIC SQUARE
MEDINA, OHIO 44256 (216) 723-3671
MEDINA COUNTY SANITARY ENGINEERING DEPT.
791 W. SMITH ROAD - P.O. BOX 542
MEDINA, OHIO 44256 (216) 225-3113

7" PLAIN PORTLAND CEMENT PAYMENT AS PER PLAN
SUBGRADE UNDER SERVICE DRIVES AND CURB RAMPS SHALL BE COMPACTION TO A DEPTH OF SIX (6) INCHES AS DESCRIBED IN 203.13. JOINTS SHALL BE PLACED AT MAXIMUM 10 FOOT INTERVALS AND CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING BP-6. THE COST OF JOINTS, GRADING, EXCAVATION AND COMPACTION SHALL BE INCLUDED IN ITEM 452 - 7" PLAIN PORTLAND CEMENT PAVEMENT, AS PER PLAN.



WOOD BENCH - TYPICAL DETAIL

ITEM SPECIAL - WOOD BENCH

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING WOOD BENCHES AS SHOWN ON THE PLANS. BENCHES SHALL BE MADE OF CLEAR HEARTWOOD REDWOOD, APPROXIMATELY 72" LONG BY 16" WIDE, SEAT PLANKS SET ON EDGE, SURFACE MOUNTED WITH GALVANIZED VANDALPROOF FASTENERS AS PER MANUFACTURER'S RECOMMENDATIONS AND APPROVAL OF THE ENGINEER.

BENCHES SHALL BE AS MANUFACTURED BY THE FOLLOWING COMPANIES OR APPROVED EQUAL:

"MACOTTA" M# 7220
"VAUGHN & ASSOC." #17003R
"TIMBERFORM" 2160-6

THE COST OF ALL OF THE ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR EACH ITEM SPECIAL - WOOD BENCH.

ITEM SPECIAL - CONCRETE SLABS

DETAIL PLACEMENT OF PICNIC TABLES, PICNIC TABLE SLABS, GRILL SLABS, SHELTER HOUSE AND WASTE RECEPTACLE SLEEVES SHALL BE AS DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST. COST FOR EACH ITEM AND SLAB SHALL BE INCLUDED IN EACH ITEM SPECIAL AS DESCRIBED AND DETAILLED ON SHEET 8.

REMOVAL OF FOUNDATIONS AND SLABS

THIS WORK SHALL CONSIST OF THE REMOVAL OF FOUNDATIONS, CONCRETE SLABS AND WALKS IN CONFORMANCE WITH THE PROVISIONS OF ITEM 202.

THE GENERAL CONTRACTOR SHALL REMOVE: ONE (1) CONCRETE SERVICE DRIVE, ONE (1) PICNIC TABLE SLAB AS WELL AS MISCELLANEOUS WALKS AND CURBS.

TREE PROTECTION

NO WORK WILL BE PERMITTED WHERE TREES, SHRUBS, OR UTILITIES ARE PRESENT WITHIN THE WORK LIMITS OF THE REST AREA PROJECT PRIOR TO STAKING BY THE GENERAL CONTRACTOR OF THE LIMITS OF PROPOSED SHELTER HOUSE, SEWER TRENCHES, SIDEWALKS, GRADING WORK AND EXISTING AND PROPOSED UTILITY LINES.

THE METHOD FOR MARKING TREES AND SHRUBS TO BE SALVAGED, PROTECTED OR REMOVED WILL BE ESTABLISHED BY THE ENGINEER, DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST AND THE GENERAL CONTRACTOR PRIOR TO WORK AROUND ANY EXISTING TREES, SHRUBS AND UTILITY LINES.

TREE AND ROOT PROTECTION USING SNOW FENCE SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS INDICATED ON THE PLAN AND AS DIRECTED BY THE ENGINEER. TREE ROOT AREAS EQUAL TO THE BRANCH SPREAD SHALL BE PROTECTED AS PER STANDARD DRAWING LA-1.

ONLY PNEUMATIC TIRED EQUIPMENT SHALL BE USED WITHIN THE REST AREA OUTSIDE THE PARKING LOTS UNLESS SPECIFICALLY PERMITTED BY THE PROJECT ENGINEER. CARE SHALL BE TAKEN BY THE VARIOUS CONTRACTORS NOT TO OPERATE EQUIPMENT OR OTHER VEHICLES WHEN THE GROUND IS WET OR SOFT IN ORDER TO AVOID DEEP RUTTING, SOIL COMPACTION AND OTHER DESTRUCTION OF TREE ROOT SYSTEMS.

NOTES

THILLS TO BE SALVAGED THAT ARE DAMAGED AT ANY TIME DURING THE CONTRACT SHALL BE REPAIRED OR REPLACED (AT THE CONTRACTOR'S EXPENSE) AS DETERMINED BY THE ENGINEER AFTER CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST. DAMAGED TREES THAT CAN BE REPAIRED SHALL BE PRUNED. REPLACEMENT SHALL BE IN QUANTITY AND QUALITY, SUFFICIENT TO COMPENSATE FOR SIZES OF TREES LOST. THE WORK SHALL BE COMPLETED AS PER 665 WITH TREES OF THE SIZE AND VARIETY, AS DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST.

ITEM SPECIAL - SNOW FENCE - TREE PROTECTION

SNOW FENCE SHALL CONSIST OF WOOD PICKETS 1/2" X 1-1/3" X 4-1/4" NOMINAL SIZE, PAINTED RED AND WOVEN WITH FIVE (5) DOUBLE STRANDS OF 12 GAUGE STEEL WIRE, SPACED APPROXIMATELY 2" APART. THE FENCE SHALL BE SUPPORTED BY STEEL OR WOOD POSTS OF ADEQUATE SIZE AND SPACING. USED FENCE AND POSTS IN GOOD CONDITION MAY BE USED AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF SNOW FENCE, TREE PROTECTION, WHICH SHALL INCLUDE FURNISHING, ERECTION AND SUBSEQUENT REMOVAL.

SODDING AS PER PLAN

ALL NEW CONCRETE WALKS AND DRIVES WITHIN THE REST AREAS SHALL HAVE A BORDER OF SOD ON EACH SIDE. SOD SHALL BE LAID IN ACCORDANCE WITH ITEM 660 EXCEPT THAT IT SHALL BE KENTUCKY BLUEGRASS, WEED FREE, AND BE COMMERCIALY CULTIVATED (NURSERY GROWN). * Additional areas of sodding will be as shown as per plan areas directed by the Engineer.

RENOVATION OF EXISTING GRASS AREAS

AREAS WHICH ARE DAMAGED DUE TO STORAGE OR CONSTRUCTION OPERATIONS UNDER THIS CONTRACT ARE TO BE FILLED IN AND UNIFORMLY COVERED WITH ONE (1) INCH OF TOPSOIL (653.02).

FERTILIZER (12-12-12), 659.03, SHALL BE APPLIED AT THE RATE OF 15 POUNDS PER 1,000 SQUARE FEET AND WORKED INTO THE SOIL TO A DEPTH OF THREE (3) INCHES.

SEED SHALL BE THE LURAN MIXTURE AS SPECIFIED IN 659.08. MULCH SHALL BE AS SPECIFIED IN 659.09.

THE EXTENT OF AREAS TO BE RENOVATED SHALL BE AS DETERMINED BY THE ENGINEER. ALL AREAS TO BE RENOVATED, PLUS THE IMMEDIATE ADJACENT AREA, SHALL BE MOVED TO A HEIGHT OF TWO (2) INCHES BEFORE ACTUAL OPERATION OF SEEDING AND RENOVATING EXISTING SOIL IN ACCORDANCE WITH ITEM 655. ALL AREAS TO BE RENOVATED SHALL BE DONE BY THE CONTRACTOR AT AN ADDITIONAL COST TO THE STATE.

TRAFFIC MAINTENANCE

THE GENERAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS (SIGNS, BARRIERS, ETC.) FOR CONTROL OF TRAFFIC DURING CONSTRUCTION AS SHOWN ON SHEET NO. 5.

THE CONTRACTOR SHALL FURNISH, PLACE AND SUBSEQUENTLY REMOVE THE BARRIER AS WELL AS FURNISH, ERECT AND SUBSEQUENTLY REMOVE ALL SIGNS AND OTHER TRAFFIC CONTROL DEVICES NECESSARY TO CLOSE THE REST AREAS, ANY TEMPORARY REARRANGEMENT OR ALTERATION OF THE TRAFFIC CONTROL DEVICES THAT MAY BECOME NECESSARY FOR THE CONTRACTOR TO FACILITATE OPERATIONS SHALL BE DONE BY THE CONTRACTOR. HOWEVER, NO TRAFFIC CONTROL DEVICES SHALL BE REARRANGED OR ALTERED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. AT THE CONCLUSION OF THE TEMPORARY OPERATION, THE CONTRACTOR SHALL REPLACE THE TRAFFIC CONTROL DEVICES TO THEIR ORIGINAL POSITION AND CONDITION.

ITEM 659 - MOWING, AS PER PLAN

MOWING OF THE AREA IN THE CONFINES OF THE R/W LIMITS OF THE REST AREA SHALL BE MAINTAINED DURING THE REHABILITATION OF THE PROJECT BY THE GENERAL CONTRACTOR. THE MOWING SHALL BE MAINTAINED AT 2 1/2 - 4" HEIGHT AT ALL TIMES.

PAYMENT WILL BE AT THE CONTRACT PRICE FOR ITEM 659 MOWING AS PER PLAN.

ESTIMATED QUANTITIES AND BID ITEMS

THE ESTIMATED QUANTITIES OF THE VARIOUS SPECIFIC AND SPECIAL ITEMS LISTED THROUGHOUT THESE PLANS ARE APPROXIMATE. THESE QUANTITIES ARE SUBSEQUENTLY INCLUDED IN THE BID ITEMS LISTED ON THE GENERAL SCHEDULE SHEET AND IN OTHER CONTRACT DOCUMENTS.

MEDINA COUNTY
MED-71 2250 (NB)
IR-71-4(6)224 PART II

ITEM	DESCRIPTION	QTY	UNIT	ITEM	DESCRIPTION	QTY	UNIT
653	TOPSOIL	653.02	YARD	659	SEEDING	659.02	YARD
659.02	SEED	659.02	LB	659.03	FERTILIZER	659.03	LB
659.04	MULCH	659.04	YARD	659.05	GRASS SEED	659.05	LB
659.06	GRASS	659.06	YARD	659.07	SEEDING	659.07	LB
659.08	LURAN	659.08	YARD	659.09	MULCH	659.09	YARD

RESTORATION OF EXISTING SEWAGE TREATMENT PLANT AREA
THE AREAS OF THE EXISTING SEWAGE TREATMENT PLANT AND DRIVEWAY INTO THE TREATMENT PLANT AREA SHALL BE PROVIDED WITH 6" OF TOPSOIL PER ITEM 653 - TOPSOIL FURNISHED AND PLACED, AND SEDED AND MULCHED AS PER ITEM 659 - SEEDING AND MULCHING.

ITEMS TO BE SALVAGED
THE FOLLOWING ITEMS SHALL BE REMOVED AND BECOME THE PROPERTY OF THE OHIO DEPARTMENT OF TRANSPORTATION. MATERIAL SHALL BE STORED AS PER ITEM 202.02.

1. SANURIL CHLORINATOR UNIT ONLY.
2. BLOWER MOTOR AND BLOWER W/PULLEY OR SHEAVE.
3. SEWAGE TREATMENT PLANT CONTROL PANEL.
4. PROPANE TANK.
5. INCINERATOR.
6. PERMANENT AIR FILTER.

REMOVAL OF EXISTING SEWAGE TREATMENT PLANT

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING SEWAGE TREATMENT PLANT, APPURTENANTS SUCH AS PIPING, FITTINGS, GRATING AND ETC. AND TRASH TRAP, AND DISPOSING OF SAME PER ITEM 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS.

THE SEWAGE TREATMENT PLANT AND TRASH TRAP SHALL BE PUMPED OUT PRIOR TO THE GENERAL CONTRACTOR'S REMOVAL OF THESE ITEMS. OHIO DEPARTMENT OF TRANSPORTATION'S DISTRICT 3 OFFICE SHALL CONTACT AN APPROVED AGENCY WHO IS LICENSED TO REMOVE, TRANSPORT AND DISPOSE OF WASTEWATER AND OBTAIN THEIR SERVICES AND PAY FOR SAME. THE GENERAL CONTRACTOR SHALL PROVIDE A MAXIMUM OF TEN (10) WORKING DAYS NOTICE TO THE DISTRICT OFFICE FROM THE DAY THEY WANT TO START THEIR REMOVAL OPERATIONS.

MISCELLANEOUS
FOR ADDITIONAL NOTES, PAY ITEMS AND DESCRIPTIONS, SEE VARIOUS SPECIALTY ITEM SHEETS THROUGHOUT THE PLANS.

PERMITS AND FEES (PART I & PART II)

IN ACCORDANCE WITH SEC. 107.02, THE CONTRACTOR SHALL PROSECURE ALL PERMITS AND LICENSES AND PAY ALL FEES, AT NO COST TO THE STATE. THE CONTRACTOR IS REMINDED THAT MEDINA COUNTY REQUIRES VARIOUS INSPECTIONS AND PERMITS TO WORK ON COUNTY FACILITIES. FURTHER INFORMATION CAN BE OBTAINED FROM:

WM. ANDERSON	KENNETH WOTZ
MEDINA COUNTY ENGINEER	MEDINA COUNTY SANITARY ENGINEER
P.O. BOX 825	P.O. BOX 542
791 W. SMITH RD.	791 W. SMITH RD.
MEDINA, OHIO 44256	MEDINA, OHIO 44256
216-723-3641	216-723-3641

GENERAL

PURPOSE: THE PURPOSE OF THIS OUTLINE SPECIFICATION IS TO ESTABLISH THE DESIGN AND QUALITY OF THE MAJOR ELEMENTS OF THE RENOVATION OF THE BUILDING AND SITE AREA, INCLUDING NEW IMPROVEMENTS. WHERE MANUFACTURERS ARE LISTED, THERE MAY BE OTHERS WHICH ARE ACCEPTABLE.

GENERAL CONTRACT

(NOTE: ALL PLUMBING AND ELECTRICAL WORK IS COVERED UNDER THE PLUMBING CONTRACT OR ELECTRICAL CONTRACT.)

1. CONCRETE

- A. ALL CONCRETE DESIGN AND PLACEMENT WITHIN THE BUILDING AREA SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 499 CONCRETE - GENERAL, CLASS 'C' CONCRETE AND ITEM 511 - CONCRETE FOR STRUCTURES, ITEM 509 - REINFORCING STEEL, ITEM 705.03 - PREFORMED FILLERS AND ITEM 709.10 - WELDED STEEL WIRE FABRIC FOR CONCRETE REINFORCEMENT.

B. SLOPES IN THE SLAB SHALL CONFORM TO ORIGINAL ELEVATIONS.

2. MASONRY

- A. ANY DEFECTIVE MORTAR JOINTS SHALL HAVE LOOSE MORTAR REMOVED AND JOINTS REPOINTED WITH MORTAR OF COMPARABLE COLOR OF EXISTING WORK.

3. THERMAL AND MOISTURE PROTECTION

- A. WHERE SEALANT HAS DETERIORATED BETWEEN ALUMINUM WINDOW SECTIONS AND ADJOINING MASONRY MATERIALS, THE EXISTING SEALANT SHALL BE REMOVED IN ITS ENTIRETY AND A NEW SEALANT, A ONE PART SILICONE GLAZING SEALANT SIMILAR TO DOW CORNING 999 SILICONE GLAZING SEALANT, GENERAL ELECTRIC SILICONE 1200, RHONE-POULENC RHODORSIL 3B OR AN APPROVED EQUAL, SHALL BE INSTALLED.

- B. WEATHER STRIP SHALL BE INSTALLED ON EXTERIOR SWINGING AND SLIDING DOORS SIMILAR TO 137NDKB, BY NATIONAL GUARD PRODUCTS, 303 BY PEMKO, 815 DUR BY REESE ENTERPRISES, INC. OR AN APPROVED EQUAL.

- C. NEW THRESHOLDS SHALL BE INSTALLED UNDER SWINGING DOORS. INSTALL SADDLE TYPE ALUMINUM SIMILAR TO "425" AS MANUFACTURED BY NATIONAL GUARD PRODUCTS, INC., 655 AS MANUFACTURED BY ZERO INTERNATIONAL, S 2058A AS MANUFACTURED BY REESE ENTERPRISES INC., OR AN APPROVED EQUAL.

4. TOILET ROOM ACCESSORIES

- A. WHERE CERAMIC TILE IS BROKEN, OTHER THAN A SINGLE HAIRLINE CRACK, THE TILE SHALL BE REMOVED, THE SUBSTRATE THOROUGHLY CLEANED AND A REPLACEMENT TILE OF THE SAME SIZE, COLOR AND TEXTURE INSTALLED.

- B. ANY DEFECTIVE GROUT SHALL BE REMOVED AND JOINT RE-GROUTED.

- C. FIVE (5) EXISTING COMBINATION MIRROR, SOAP AND TOWEL DISPENSERS SHALL BE REMOVED, VOID FILLED AND NEW TILE INSTALLED TO MATCH ADJACENT CERAMIC TILE.

- D. REMOVE EXISTING WASTE TOWEL DISPOSALS FROM MEN'S TOILET ROOM; FILL VOID AND INSTALL NEW TILE TO MATCH ADJACENT CERAMIC TILE.

E. HEATER SHIELD:

- THE GENERAL CONTRACTOR SHALL FURNISH AND INSTALL, ABOVE EACH BASEBOARD HEATING UNIT, AND UNDER HAND DRIERS, A STAINLESS STEEL HEATER SHIELD.

THE SHIELD SHALL BE FABRICATED OF 16GA (.0625) 300 SERIES STAINLESS STEEL IN ACCORDANCE WITH THE PLANS AND CONFORMING TO 230.09, WITH ALL JOINTS AND CORNERS

WELDED, WROUGHT AND POLISHED IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICES. ALL EXPOSED EDGES SHALL BE DEBURBED TO REMOVE ALL SHARP EDGES.

THE SHIELD SECTIONS SHALL BE ANCHORED TO THE WALL WITH 1/4" DIA. X 1-1/4" ANCHOR BOLTS AS MANUFACTURED BY WE-11 OR AN APPROVED EQUAL. THE CONTRACTOR SHALL LOCATE AND DRILL THE BOLT HOLES TO MATCH THE HOLE PATTERN OF THE FABRICATED SECTIONS, WITH THE HOLE SIZE AND DEPTH RECOMMENDED BY THE ANCHOR BOLT MANUFACTURER.

F. ELECTRIC HAND DRYER: UNITS SHALL BE SURFACE MOUNTED, ONE PIECE CAST IRON COVER WITH ENAMEL FINISH. UNITS SHALL HAVE 30 SECOND DRYING CYCLE AND NOZZLE IN FIXED POSITION. TWO (2) ARE REQUIRED IN EACH TOILET ROOM, RATED AT 10 AMP (F.L.A.), 230 V AC, 2300 WATTS, 60 HZ. UNITS TO BE SIMILAR TO B-2009 AS MANUFACTURED BY BOBRICK, MODEL A 54 BY WORLD DRYER CORPORATION OR APPROVED EQUAL, COLOR TO BE NO. 169.

G. GRAB BARS SHALL BE REMOVED FROM MEN'S AND WOMEN'S TOILET ROOM AND REPLACED WITH A PAIR OF STAINLESS STEEL GRAB BARS. IN EACH TOILET ROOM, GRAB BARS SHALL BE CONSTRUCTED OF 18 GAUGE, TYPE 304 STAINLESS STEEL WITH CONCEALED MOUNTINGS. 1-1/4" DIAMETER WITH PEENED NON-SLIP GRIPPING SURFACE AND SATIN FINISH. BAR SHALL BE SIMILAR TO SERIES B-550 AS MANUFACTURED BY BOBRICK OR COMPARABLE PRODUCTS BY BRADLEY, PARKER, OR APPROVED EQUAL.

H. TOILET PARTITIONS. EXISTING TOILET PARTITIONS SHALL BE REMOVED AND DISCARDED. NEW TOILET PARTITIONS SHALL BE SYNMETAL "ACADEMY", MILLS "SENTINEL" OR WEIS "HI-STILE". TOILET PARTITIONS SHALL BE #304 STAINLESS STEEL, NO. 4 FINISH. FLOOR SUPPORT TYPE HEAD RAIL REINFORCEMENT. DOORS (DOORS A MINIMUM OF 18 GAUGE) AND PARTITIONS SHALL BE 1 INCH THICK MADE OF TWO SHEETS OF STAINLESS STEEL (PARTITIONS A MINIMUM OF 22 GAUGE) WITH EDGES FORMED, ASSEMBLED OVER AND CEMENTED UNDER PRESSURE TO A DENSE, SOUND-DEADENING CORE INSULATION. THE TWO FACE PLATES ON DOORS AND PARTITIONS SHALL HAVE FORMED EDGES, SEALED WITH CONTINUOUS OVAL CROWN LOCKING STRIPS OF 20 GAUGE STAINLESS STEEL. THE DOOR EDGES SHALL BE ELECTRICALLY WELDED TOGETHER, REINFORCE PARTITIONS TO RECEIVE HARDWARE, ALL REINFORCING TO BE CONCEALED, DRILL ALL HOLES FOR HARDWARE.

PILASTERS SHALL BE MADE 1-1/4 INCHES THICK OF TWO SHEETS OF 18 GAUGE SHEET STAINLESS STEEL WELDED TOGETHER. PILASTER, WHEN SET IN PLACE, SHALL BE ANCHORED TO FLOOR BY MEANS OF FITTINGS PROVIDING FOR VERTICAL ADJUSTMENTS.

URINAL SCREENS SHALL BE GENERAL PARTITION WHS-3, WEIS TYPE WBS, OR APPROVED EQUAL. SCREENS SHALL BE STAINLESS STEEL AND BE MOUNTED WITH A STAINLESS STEEL END POST FLOR TO CEILING. NECESSARY MOUNTING HARDWARE SHALL BE ACCORDING TO MANUFACTURER USING VANDAL PROOF SCREWS.

DIVIDING PARTITION SHALL BE ATTACHED TO PILASTERS AND WALL WITH NON-FERROUS, CHROME-PLATED STIRRUP BRACKETS USING VANDAL PROOF SCREWS. THE BASE OF THE PILASTERS AND FLOOR ANCHORAGE SHALL BE CONCEALED BY A 1/2 INCH POLISHED STEEL TRIM.

DOORS SHALL BE EQUIPPED WITH CONCEALED, CONTROLLED GRAVITY ACTION, DOOR HINGES. EACH DOOR SHALL BE MOUNTED ON HINGES CONSISTING OF UPPER AND LOWER BRACKETS OF CAST ALLOY NONFERROUS METAL WITH CHROME-PLATED FINISH. CONTROLLED OPERATION OF DOOR SHALL BE BY A BALL BEARING ROLLER TRAVELING UNDER SPRING TENSION ON AN INCLINED CAM HINGE SHALL BE ADJUSTABLE TO PERMIT DOOR TO COME TO REST AT ANY ANGLE OR POSITION DESIRED TO HOLD DOOR IN OPEN OR CLOSED POSITION WHEN NOT LATCHED. ALL MOVING HINGE PARTS SHALL OPERATE IN BEARINGS TO PROVIDE FOR FREE MOVEMENT OF ALL PARTS. EACH DOOR SHALL BE EQUIPPED

NOTES

WITH ONE CAST ALLOY BRONZE PLATED CURTAIN HOOK AND BUMPER, AND ONE CAST ALLOY CHROME PLATED COMBINATION DRUM SWIM AND LATCH KEEPER, TO BE SECURELY ATTACHED TO THE PILASTER AT A POINT OPPOSITE SLIDE BAR LATCH ON THE DOOR. PROVIDE AND INSTALL TOILET PAPER HOLDERS FOR EACH TOILET AS HEREIN SPECIFIED.

HANDICAPPED TOILET COMPARTMENT DOORS SHALL BE 2'-8" WIDE, ALL OTHER DOORS SHALL BE 2'-0" WIDE.

I. HANDICAPPED SYMBOLS SHALL BE PLACED ON MEN AND WOMEN'S TOILET ROOM DOORS. INTERNATIONAL HANDICAPPED SYMBOL SHALL BE IN DECAL FORM.

3. GRAVITY SOAP DISPENSING SYSTEM

FURNISH AND INSTALL, AS SHOWN ON THE DRAWINGS, TWO GRAVITY FEED LIQUID SOAP SYSTEMS WHICH SHALL SUPPLY LIQUID SOAP TO EACH LAVATORY IN THE MEN'S AND WOMEN'S TOILET ROOMS.

THE SYSTEM SUPPLYING THE WOMEN'S LAVATORIES SHALL CONSIST OF ONE AMERICAN DISPENSER CO. MODEL NO. 500 SURFACE MOUNTED STAINLESS STEEL TANK, 5 GALLON CAPACITY, SIZE 15-1/2" W X 13-1/4" H X 6-7/8" D, FABRICATED OF SEAM WELDED 22 GAUGE, TYPE 18-8 STAINLESS STEEL, SATIN FINISH, WITH LEAK PROOF POSITIVE ACTION SOAP LEVEL INDICATION LOCATED ON FRONT OF TANK. THE ENTIRE COVER SHALL SWING OPEN FOR FILLING, BOTTOM TO BE FITTED WITH 3/8 INCH NPT FEMALE COUPLING. FURNISH WITH AMERICAN DISPENSER CO. NO. 380 COMBINATION UNION SHUT-OFF.

THE TOP OF THE TANK SHALL BE MOUNTED 7'-0" OFF FINISHED FLOOR.

A WALL BRACKET SHALL BE FORMED FROM 1/4" STEEL PLATE WELDED TO FORM A 18" LONG X 8" WIDE TOP WITH AN 18" LONG X 3" HIGH BACK FOR MOUNTING TO WALL. PROVIDE THE TOP PLATE WITH A 1 INCH DIA. DRILLED HOLE, LOCATED TO ALLOW CONNECTION TO THE SOAP SUPPLY LINE. PROVIDE TWO (2) EQUALLY SPACED 3/8 INCH HOLES IN THE BACK PLATE FOR MOUNTING BRACKET TO WALL. TANK SHALL REST ON BRACKET.

ALL PIPING SHALL BE TYPE "K" HARD COPPER TUBING WITH CASSI BRASS FITTINGS USED THROUGHOUT SYSTEM WITH 95/5 SOLDER JOINTS.

THREE (3) VANDAL-PROOF HORIZONTAL STYLE SOAP VALVES, AMERICAN DISPENSER CO. NO. 5012, CONSTRUCTED OF POLISHED CHROMIUM-PLATED BRASS, SHALL BE FURNISHED AND INSTALLED THROUGH THE 4" SWING DOOR OF WOMEN'S ROOM. THERE SHALL BE ONE VALVE INSTALLED AT EACH LAVATORY MOUNTED 37" ABOVE FINISHED FLOOR.

THE SYSTEM SUPPLYING THE MEN'S LAVATORIES SHALL BE DUPLICATED AS SPECIFIED IN ABOVE, EXCEPT THAT ONLY TWO (2) VANDAL-PROOF HORIZONTAL STYLE SOAP VALVES SHALL BE FURNISHED.

THE SOAP TANKS SHALL BE PLACED ON THE BACK OF THE RESPECTIVE WALL THAT SUPPORTS THE LAVATORIES THAT EACH SYSTEM IS SERVING.

APPROVED EQUAL MANUFACTURERS FOR THE ABOVE SPECIFIED EQUIPMENT SHALL BE BY BRADLEY, BOBRICK OR WATERSO INC.

K. SANITARY NAPKIN DISPOSAL. TWO (2) NAPKIN DISPOSALS REQUIRED IN WOMEN'S TOILET ROOM, UNIT TO SERVE TWO COMPARTMENTS, MOUNTING IN TOILET PARTITION. UNIT TO BE FABRICATED OF TYPE 304 STAINLESS STEEL SATIN FINISH. UNIT TO HAVE SEAMLESS FLANGES AND SELF-CLOSING DOORS ON EACH SIDE. ROUGH OPENING 11" WIDE X 15-1/2" HIGH. DISPOSAL TO BE SIMILAR TO MODEL B-354 AS MANUFACTURED BY BOBRICK, COMPARABLE MODELS BY BRADLEY, PARKER OR AN APPROVED EQUAL ARE ACCEPTABLE.

L. TOILET TISSUE DISPENSER - SEVEN (7) REQUIRED, ONE FOR EACH TOILET STALL, UNIT SHALL BE SURFACE MOUNTED, HEAVY DUTY ALUMINUM CASTING WITH SATIN FINISH, SPINDLES TO BE

MEDINA COUNTY
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ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ITEM NO.	DESCRIPTION	QUANTITY	UNIT	ITEM NO.	DESCRIPTION	QUANTITY	UNIT	
1	ITEM NO. 1	1	UNIT	ITEM NO. 2	1	UNIT	ITEM NO. 3	1	UNIT	ITEM NO. 4	1	UNIT
2	ITEM NO. 5	1	UNIT	ITEM NO. 6	1	UNIT	ITEM NO. 7	1	UNIT	ITEM NO. 8	1	UNIT
3	ITEM NO. 9	1	UNIT	ITEM NO. 10	1	UNIT	ITEM NO. 11	1	UNIT	ITEM NO. 12	1	UNIT

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ITEM NO. 1
ITEM NO. 2
ITEM NO. 3
ITEM NO. 4
ITEM NO. 5
ITEM NO. 6
ITEM NO. 7
ITEM NO. 8
ITEM NO. 9
ITEM NO. 10
ITEM NO. 11
ITEM NO. 12

MIRRORS: TWO (2) TILT HANDICAPPED MIRRORS REQUIRED (ONE IN EACH TOILET ROOM). SURFACE MOUNTED, FRAME TYPE 30A STAINLESS STEEL SATIN FINISH, NO. 1 QUALITY FLOAT/PLATE GLASS MIRROR ELECTROLYTICALLY COPPER PLATED. MIRROR EXTENDS 4" FROM WALL AT TOP AND Tapers TO 1" AT BOTTOM, DIMENSIONS: 16" WIDE X 30" HIGH. MIRRORS TO BE SIMILAR TO MODEL B-293 AS MANUFACTURED BY BOBRICK, COMPARABLE PRODUCTS THREE (3) STAINLESS STEEL CHANNEL FRAME MIRRORS 18" WIDE X 30" HIGH REQUIRED, TWO IN WOMEN'S TOILET ROOM AND ONE IN MEN'S TOILET ROOM. MIRROR TO BE NO. 1 QUALITY, 1/4" FLOAT/PLATE GLASS MIRROR ELECTROLYTICALLY COPPER PLATED; GUARANTEED AGAINST SILVER SPILLAGE FOR 10-YEARS. BACK TO BE GALVANIZED STEEL. MIRROR TO BE INSTALLED ON CONCEALED WALL HANGER AND LOCKED IN PLACE BY TWO THEFT-RESISTANT SCREWS. MIRROR TO BE SIMILAR TO MODEL B-165 AS MANUFACTURED BY BOBRICK. COMPARABLE PRODUCTS BY BRADLEY, PARKER OR APPROVED EQUAL ARE ACCEPTABLE.

F. ITEM SPECIAL-REST AREA WATER RESERVOIR TANK CLEAN-OUT (EXCEPT ELECT. & PLUMBING WORK)

A. THE EXISTING WATER STORAGE TANK SHALL BE DRAINED, CLEANED AND RECOATED. ALL EXTERIOR AND EXPOSED EXTERIOR CORRODED SURFACES SHALL BE WIRE BRUSHED DOWN TO CLEAN, BRIGHT BARE METAL. THESE SURFACES SHALL THEN BE PRIMED WITH A SINGLE COAT OF THEMEC SERIES 20-1255 MOTA-POX 5 MILS DRY THICKNESS. ALL SURFACES TO RECEIVE PAINT SHALL BE THOROUGHLY DRY AND FREE OF STAINS. A FINAL FIELD COAT OF THEMEC SERIES 20-2000 PAINT 6 MILS DRY THICKNESS SHALL BE APPLIED AFTER THE SURFACE HAS BEEN APPROVED; PAINTING SHALL BE IN ACCORDANCE WITH THE LATEST A.W.W.A. STANDARDS FOR WATER STORAGE RESERVOIRS.

ALL PAINT SHALL BE OF THE SAME MANUFACTURER. PAINT SHALL BE MANUFACTURED BY THEMEC, KOPPERS, CARBONILLE OR EQUAL. Contractor shall also furnish, install and paint new air vent, manhole housing and anodes as shown on Schematic No. 10.

ITEM SPECIAL-WATER WELL ASSEMBLY (EXCEPT ELECT. WORK)

1. ON THE 1-1/2" COPPER LINES FROM EACH WELL, ON EACH SIDE OF THE "TEE" CONNECTION, ADD 2-1254 BRASS, SCREWED, HORIZONTAL SWINGS CHECK VALVE W/M.I.P.S. TO COPPER ADAPTERS. SWING SHALL BE IN DIRECTION OF FLOW OF EACH INDIVIDUAL LINE.

2. A) THE GENERAL CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR, MATERIAL, TOOLS, EQUIPMENT AND ACCESSORIES REQUIRED TO CUT THE EXISTING EXTERIOR BUILDING WALL AND INTERIOR CONCRETE FLOORS, AND PERFORM ALL EXCAVATION AND BACKFILL REQUIRED THERE TO PERMIT THE PLUMBING CONTRACTOR TO INSTALL THE WELL SUPPLY PIPING FROM THE EXTERIOR OF THE BUILDING TO THE INTERIOR LOCATION OF THE CHLORINATOR PUMP AND TANK ASSEMBLY AND THE RETURN FROM THE BUILDING BACK TO THE UNDERGROUND RESERVOIR TANK. THE PLUMBING CONTRACTOR SHALL WORK JOINTLY WITH THE GENERAL CONTRACTOR IN THE LAYOUT OF THE AREA AND REQUIRED SPACE NEEDED FOR THIS INSTALLATION, UNDER THE APPROVAL OF THE PROJECT ENGINEER.

B) AFTER THE PLUMBER HAS INSTALLED AND TESTED THE INSTALLATION AND APPROVED BY THE INSPECTION AGENCY'S AND PROJECT ENGINEER, THE GENERAL CONTRACTOR SHALL RESTORE THE BUILDING TO ITS ORIGINAL CONDITION AS REQUIRED.

For details of schematic well supply piping see sheet No. 10.

GENERAL NOTES

ELECTRICAL SPECIFICATIONS

1. GENERAL

A. WHERE A MATERIAL OR METHOD IS DESCRIBED BY PERFORMANCE DATA ONLY, ANY PRODUCT OR METHOD MEETING SUCH REQUIREMENTS MAY BE USED. WHERE MORE THAN ONE BRAND NAME IS SPECIFIED, THE FIRST NAMED IS THE PRODUCT WHOSE DIMENSIONS AND PERFORMANCE CHARACTERISTICS WERE USED IN THE DESIGN. OTHER PRODUCTS MAY BE USED BUT WITH THE UNDERSTANDING THAT IF CHANGES TO THE BUILDING ARE REQUIRED BECAUSE OF DIMENSIONS OR CHARACTERISTICS OF THAT PRODUCT, NO ADDITIONAL PAYMENT WILL BE ALLOWED.

B. IN MOST INSTANCES, AN ATTEMPT HAS BEEN MADE TO MENTION THREE MANUFACTURERS. HOWEVER, GENERALLY, ONLY ONE MANUFACTURER'S FIGURE NUMBER IS GIVEN. IF THE CONTRACTOR CHOOSES TO FURNISH A PRODUCT LISTED, BUT WITHOUT FIGURE NUMBER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH AN ITEM EQUIVALENT IN DESIGN AND QUALITY TO THAT SPECIFIED BY NUMBER AND THE SELECTIONS SHALL MEET WITH THE ENGINEER'S APPROVAL.

C. CONDUIT LAYOUT IS SCHEMATIC ONLY. CONDUIT SHALL BE RUN AS SHOWN ON THE DRAWINGS UNLESS STRUCTURAL OR OTHER CONDITIONS MAKE IT IMPOSSIBLE TO DO SO. FOR ANY SUCH CASE, THE ENGINEER SHALL BE CONSULTED AND ANY CHANGE NECESSARY SHALL BE APPROVED BY HIM.

D. THE ELECTRICAL WORK SHALL INCLUDE THE CONNECTION ELECTRICALLY, READY TO OPERATE, OF ALL ELECTRICALLY OPERATED EQUIPMENT INSTALLED UNDER THE OTHER SECTION OF THESE NOTES AND SPECIFICATIONS. THIS SHALL INCLUDE WIRING AND CONNECTIONS OF LINE VOLTAGE FROM PANEL BOARDS, ETC., TO SWITCHES, MOTOR STARTERS AND MOTORS, AND THE FURNISHING AND INSTALLING OF DISCONNECT SWITCHES AND STARTERS FOR ALL MOTORS AND EQUIPMENT REQUIRE SAME. THIS SHALL ALSO INCLUDE CONTROL WIRING, CONTROL RELAYS AND ETC. REQUIRED FROM CONTROL PANEL TO VARIOUS DEVICES REQUIRED, READY TO OPERATE, OPERATING TESTING INCLUDED.

E. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND SPECIAL REGULATIONS OF THE STATE FIRE MARSHAL AND THE OHIO DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF FACTORIES AND BUILDINGS.

F. ALL MATERIAL SHALL BE NEW AND CONFORM WITH THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC. WHEREVER SUCH STANDARDS HAVE BEEN ESTABLISHED AND SHALL FULLFILL THE NORMAL REQUIREMENTS FOR SATISFACTORY WORKMANSHIP.

2. INSPECTION

A. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 20 (OAC 4101:2-20) AND NEC, NFPA STANDARD NO. 70 AND IS SUBJECT TO THE APPROVAL OF THE DISTRICT ELECTRICAL INSPECTOR ASSIGNED BY THE DIVISION OF FACTORY AND BUILDING INSPECTION.

B. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A CERTIFICATE OF INSPECTION AND APPROVAL FROM SAID BUREAU OR AGENCY BEFORE FINAL PAYMENT ON CONTRACT WILL BE ALLOWED.

3. CONDUIT

A. CONDUIT SHALL BE MADE OF RIGID STANDARD WEIGHT MILD STEEL, HOT DIPPED GALVANIZED AS PER OMS ITEM 713.04. EACH LENGTH SHALL BEAR THE UL LABEL.

B. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH TRADE SIZE.

C. CONDUIT SHALL BE SECURELY SUPPORTED BY ONE HOLE PIPE CLAMP HANGERS, TO BE APPROVED BY THE ENGINEER, AND SPACED NOT MORE THAN 5 FEET APART.

D. THE USE OF SCRAP IRON OR WIRE FOR HANGERS WILL NOT BE APPROVED.

E. SCOTCHLOCK PRE-INSULATED SPRING CONNECTORS MAY BE USED FOR FIXTURE CONNECTIONS.

F. CARE SHALL BE EXERCISED IN INSTALLING WIRES IN CONDUIT SO THAT INSULATION WILL NOT BE DAMAGED. NOTHING EXCEPT UL APPROVED WIRE LUBRICANT SHALL BE USED TO ASSIST IN WIRE INSTALLATION.

G. AT EACH OUTLET BOX LEAVE 12 INCHES OF WIRE PROJECTING FOR FUTURE CONNECTIONS. EXPOSED ENDS OF WIRES SHALL BE TAPE.

H. ALL CONDUITS, IN WHICH CONDUCTORS ARE NOT REQUIRED, SHALL HAVE FISH WIRE NO. 10 OR LARGER TO FACILITATE PULLING IN FUTURE WIRES.

I. FURNISH CORD AND PLUGS OF PROPER SIZE AND TYPE AND HOOK-UP ALL EQUIPMENT.

5. FLEXIBLE STEEL CONDUIT

A. FLEXIBLE STEEL CONDUIT SHALL BE FULL WEIGHT STANDARD INTERLOCKING EQUAL TO FEDERAL SPECIFICATION WW-C-566, MINIMUM SIZE 1/2 INCH. USE OF FLEXIBLE CONDUIT SHALL BE LIMITED TO MAKING MOTOR CONNECTIONS AND/OR USE AS APPROVED BY THE ENGINEER.

6. OUTLET BOXES AND FITTINGS

A. ALL LIGHT RECEPTACLES AND SWITCH OUTLET BOXES SHALL BE OF HEAVY PRERESSED STEEL GALVANIZED OF A STANDARD MAKE AND OF A SIZE AND SHAPE FOR THE USAGE AND CONDUIT CONNECTIONS.

B. WHERE CONDUIT FITTINGS ARE SPECIFIED, SAME SHALL BE CROUSE-HINDS, APPLETON, OR ADAPT CO. FITTING, OR APPROVED EQUAL.

7. WIRE

A. ALL WIRE SHALL BE TYPE THW BEARING THE UL LABEL.

B. FEEDERS SHALL BE TYPE THW.

C. ALL WIRE NO. 8 OR LARGER SHALL BE STRANDED.

D. ALL WIRE SHALL BE BROUGHT TO THE JOB IN NEW ROLLS.

E. ALL WIRE SHALL BE COPPER, STRANDED, UNLESS NOTED OTHERWISE.

F. FEEDERS TO RESERVOIR AND WELL PUMPS SHALL BE TYPE USE, RHH/RHW-600 VOLT, AS PER OMS ITEM 713.02.

G. WIRES FROM WELL CONTROL PANEL, INCLUDING SUSPENSION WIRE THAT RELATES TO ELECTRODES, SHALL BE NO. 321A SUSPENSION WIRE BY CHARLES F. WARRICK CO. OR APPROVED EQUAL.

8. RECEPTACLES

A. RECEPTACLES SHALL BE FLUSH DUPLEX GROUNDING TYPE, UNLESS NOTED OTHERWISE.

B. GROUND FAULT CIRCUIT INTERRUPTING (GFCI) RECEPTACLES SHALL BE HEAVY DUTY DUPLEX, FEED THROUGH TYPE, CAPABLE OF PROTECTING DOWNSTREAM RECEPTACLES. RECEPTACLE SHALL BE GROUNDING TYPE, UL RATED, CLASS A, GROUP 1, RATED 20 AMPERES, 125 VOLTS, 60 HZ., WITH SOLID STATE GROUND FAULT SENSING AND SIGNALING AND 5 MILLIAMPERE GROUND FAULT TRIP LEVEL. RECEPTACLE SHALL HAVE 15 AMPERE PLUG CONFIGURATION, NEMA 5-15R.

9. PLATES

A. ALL PLATES FOR SWITCHES AND RECEPTACLES SHALL BE .06 INCH THICK METAL PLATES, STAINLESS STEEL SATIN FINISH.

10. CIRCUIT BREAKERS

A. BRANCH CIRCUIT BREAKERS SHALL BE SINGLE OR MULTIPOLAR AS INDICATED. WHERE MULTIPOLAR BREAKERS ARE REQUIRED THEY SHALL BE COMMON TRIP TYPE. ALL BRANCH CIRCUIT BREAKERS SHALL BE INDIVIDUALLY REMOVABLE AND INTERCHANGEABLE. BREAKERS SHALL BE THERMAL MAGNETIC TYPE EMPLOYING QUICK-BREAK MECHANISM FOR MANUAL AS WELL AS AUTOMATIC OPERATION. BREAKERS SHALL HAVE NON-CORRODING CONTACTS AND SHALL BE ENCASED IN MOLDED BAKELITE ENCLOSURES. BREAKERS SHALL BE FASTENED TO BUSS BARS BY MEANS OF SCREWS, BOLTS OR AN APPROVED EQUALLY EFFECTIVE MEANS OTHER THAN PLUG-IN CONTACT. BREAKERS SHALL BE AMBIENT COMPENSATED. ALL BREAKERS THROUGH 100 AMP. SHALL BE E FRAME, COMPATIBLE WITH EXISTING ITE TYPE NDP PANEL.

MEDINA COUNTY
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IR-71-4(6)224 PART II

DATE 8/28
11:45 AM
11:45 AM

11. GROUNDING

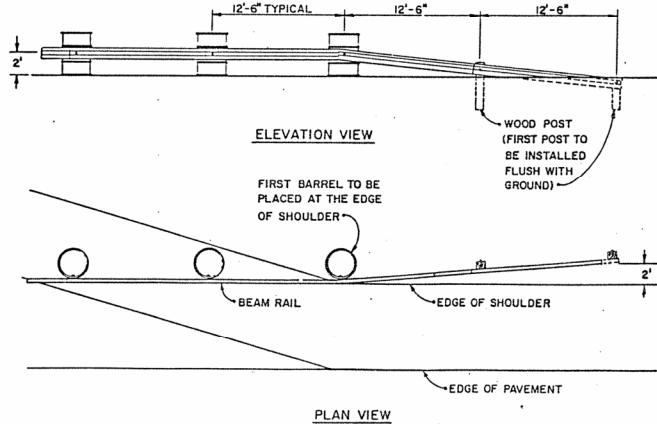
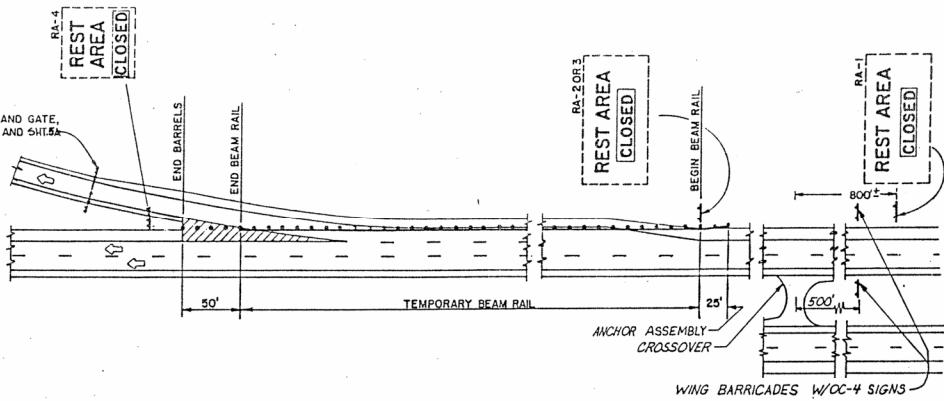
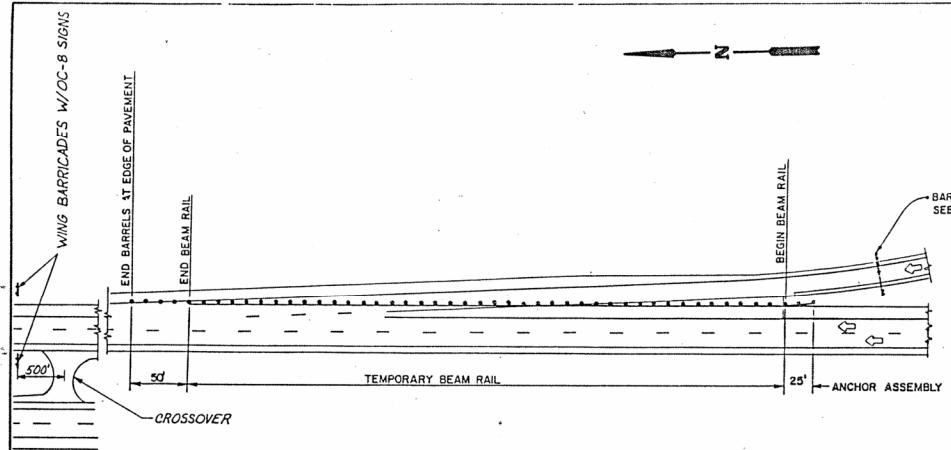
A. ALL GROUNDING SHALL BE PROVIDED AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRIC CODE (NEC).

B. ALL FLEXIBLE CONDUIT SHALL BE BONDED BY A GREEN THIN CONDUCTOR SIZED IN ACCORDANCE WITH TABLE 250-95, NEC AND PROPERLY SECURED TO THE CONDUIT SYSTEM/EQUIPMENT AT EACH END.

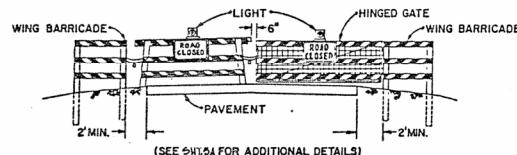
PANEL 1

DESCRIPTION	IN	WIRE	AMPS	VOLTS	IN PWR	WATTS
1. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
2. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
3. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
4. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
5. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
6. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
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10. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
11. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
12. 120/240 VOLT SINGLE PHASE 3 WIRE 50 AMP 12 POLE PANEL BOARD W/ 400 AMP CIRCUIT BREAKER, BUS 4 S/N						
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94. 120/240						

CALC. TB
 DATE 10/2/79
 CHKD. TB
 BY
 DATE 10/6/81
 MED-71-22.50 (N.B.)
 REST AREA
 IR-71-4(6)224 PART II
 OHIO
 FHW REGION 5
 (5) (13)



TEMPORARY ANCHOR ASSEMBLY

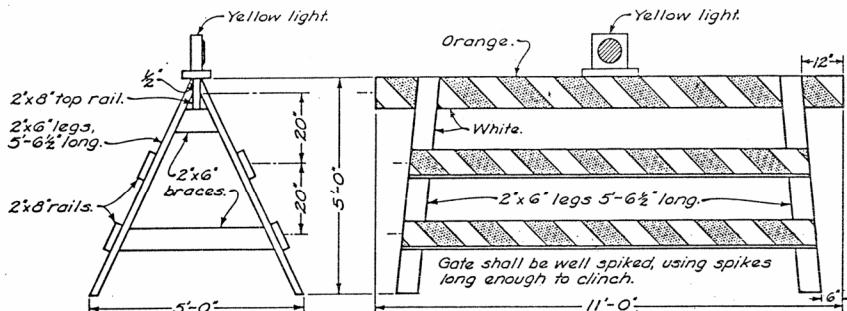


BARRICADES AND GATE

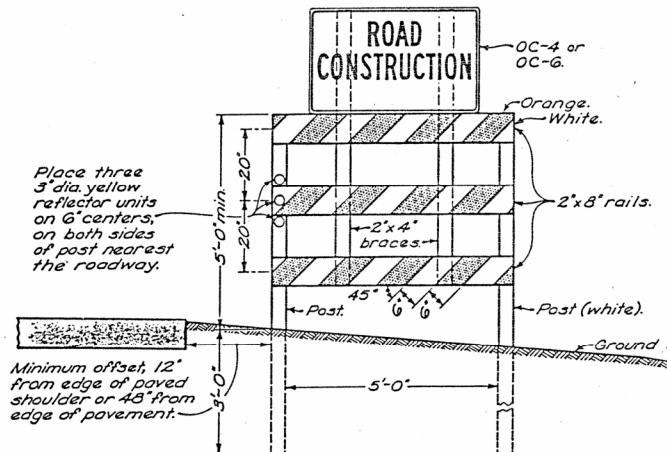
NOTES:

1. REST AREA SIGNS (RA-1 THRU RA-4) SHALL HAVE THE ACTION MESSAGE COVERED BY AN OVERLAY BEARING THE LEGEND "CLOSED". THIS PANEL SHALL HAVE A BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND. THE OVERLAY FOR THE RA-1, RA-2 AND RA-3 SIGNS SHALL BE 8' X 1 1/2". THE OVERLAY FOR THE RA-4 SIGNS SHALL BE 4' X 1 1/2".
2. SUPPLEMENTAL PANELS LOCATED UNDER MAINLINE REST AREA SIGNS SHALL BE REMOVED OR COVERED WHEN THE REST AREA IS CLOSED. (EXAMPLE: TELEPHONE, TOURIST INFO, HANDICAPPED SYMBOL SIGN).
3. TEMPORARY BEAM RAIL, IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIAL SPECIFICATION 606.04, SHALL BE USED TO CLOSE THE ACCELERATION AND DECELERATION LANES FOR REST AREA CLOSURES EXCEEDING 7 DAYS. (FOR DETAILS ON ANCHOR ASSEMBLIES AND GUARDRAIL FLARES, SEE TEMPORARY ANCHOR ASSEMBLY DETAIL.) FOR REST AREA CLOSURES OF LESS THAN 7 DAYS, THE DECELERATION AND ACCELERATION LANES SHOULD BE CLOSED WITH REFLECTORIZED DRUMS PLACED 15' CENTER TO CENTER. THE EXISTING SHOULDER WIDTH SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY CONCRETE BARRIER WITH END TERMINALS IN ACCORDANCE WITH MC-9A MAY BE USED AS AN ALTERNATE TO THE TEMPORARY BEAM RAIL AND ANCHOR ASSEMBLY.
4. WHERE REST AREA RAMP LIGHTING EXISTS, IT SHALL BE MAINTAINED IN PROPER CONDITION TO PROVIDE OPTIMUM ILLUMINATION.
5. REST AREA SIGN RA-5 SHALL BE ADDED WITH PROPER MILEAGE SHOWN. DURING CLOSURE THE WORDS "OPEN" AND APPLICABLE MILEAGE SHALL BE ADDED WITH BLACK ON ORANGE OVERLAYS. THE OVERLAY SIZE IS 3 1/2" X 1 1/2". LOCATION TO BE APPROVED BY THE ENGINEER.
6. GATES AND BARRICADES, IN ACCORDANCE WITH SH15, SHALL BE ERECTED ACROSS THE EXIT AND ENTRANCE RAMPS FOR THE REST AREA.

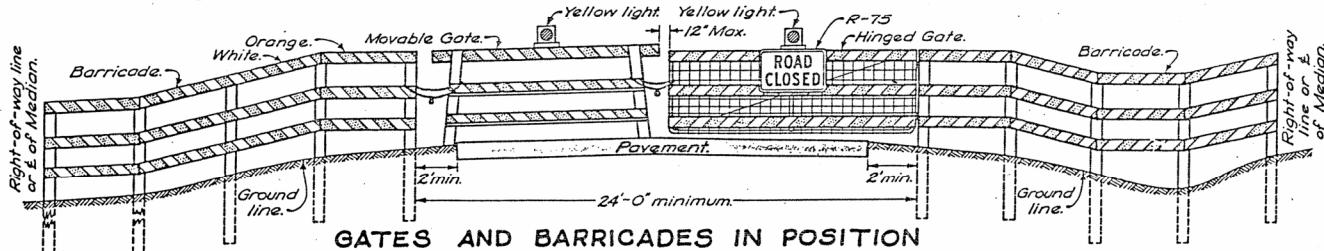
MOVABLE GATE



ROAD
CONSTRUCTION



WING BARRICADE



GATES AND BARRICADES IN POSITION

NOTES

FED. RD. DIVISION	STATE	PROJECT
5	OHIO	MED.-71-22.50

5A
13

YELLOW LIGHT: Each gate shall be equipped with a steady burning yellow light, conspicuously visible at all distances up to 1000' under normal atmospheric conditions. The light, operated by battery, electric generator, commercial power or propane gas, shall be in operation of all times between sunset and sunrise during the period the highway is closed.

SIGNS: Where the road is closed to traffic by the erection of gates and barricades, a **ROAD CLOSED** sign (R-75) shall be mounted on the gate as shown. On three-lane pavement, the sign shall be mounted on the middle gate facing traffic.

Where traffic is maintained, a **ROAD CONSTRUCTION TRAFFIC MAINTAINED** sign (OC-4) shall be used on the right shoulder wing barricade on the approaches to major construction or maintenance jobs less than 2 miles in length. A **ROAD CONSTRUCTION NEXT MILES** sign (OC-6) shall be used on the right shoulder wing barricade on the approaches to any major construction or maintenance job of 2 miles or more in length. An **END CONSTRUCTION** sign (OC-8) shall be erected above the right hand wing barricade facing traffic leaving the construction section. The signs on the wing barricades shall be erected above the top rail of the wing barricade on braces, as detailed hereon.

PAINTING AND REFLECTORIZATION: All rails of the barricades and gates shall be reflectorized with orange and white reflectorized sheeting in 6'-wide alternate stripes which slope downward toward the center line of the road at an angle of 45%. All three rails of the Road Closed barricade shall be striped on the side facing traffic. All three rails of the wing barricade and all gate rails shall be striped on both sides. All posts, braces, gate legs and any unstriped rails shall be painted white.

GATES: One gate shall be erected for each traffic lane. Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be $\frac{1}{2}$ stock or larger with welded links.

A hinged gate may be used and shall be an approved 12' by 4' steel frame farm type, or a type approved by the Engineer. The gate shall be hung on hinge screw hooks, or as otherwise approved. Striping similar to that used on the movable gate shall be accomplished with 1x8 lumber or with metal strips fastened to the gate. The gate shall be supported at the center in an approved manner.

LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas fir, surfaced on four sides standard, or other materials approved by the Engineer. All sizes are nominal.

POSTS shall be sound 4"x4" sawed or 4 $\frac{1}{2}$ " round. Rails of the barricade shall be bolted to the posts with $\frac{3}{8}$ bolts.