

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
MED-18-12.99
(PART 1)
CITY OF MEDINA
MEDINA TOWNSHIP, MONTVILLE TOWNSHIP
MEDINA COUNTY
FOR PART 2, SEE MED-18-12.99 (PART 2)

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF WIDENING AND RECONSTRUCTING 2.13 MILES OF S.R. 18 FROM JUST WEST OF ALBER DRIVE IN THE CITY OF MEDINA TO THE INTERSECTION OF NETTLETON ROAD IN MEDINA AND MONTVILLE TOWNSHIPS, MEDINA COUNTY. A 10' MULTI-USE PATH WILL BE CONSTRUCTED ON THE SOUTH SIDE OF S.R. 18 FROM WOODLAND DRIVE TO NETTLETON ROAD. ADDITIONALLY A NEW STRUCTURE OVER THE WEST BRANCH ROCKY RIVER WILL BE CONSTRUCTED FOR THE MULTI-USE PATH. NEW STORM DRAINAGE, TRAFFIC SIGNALS AND SIGNAGE WILL ALSO BE INSTALLED.

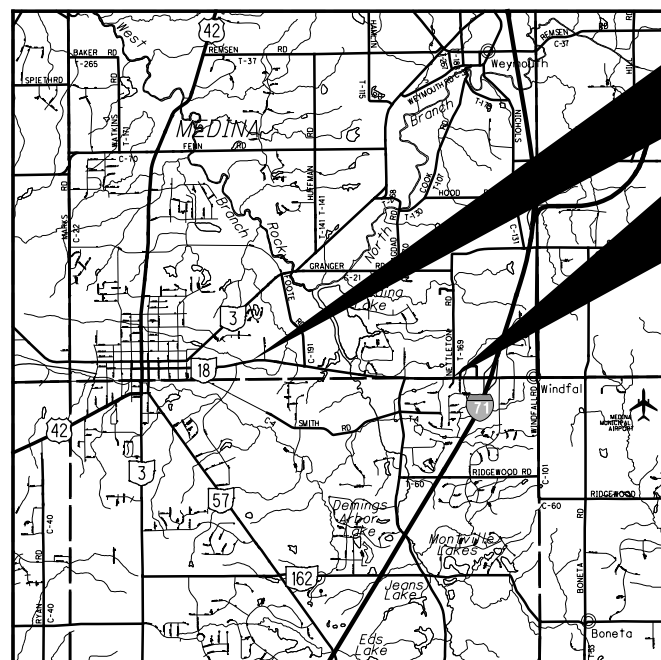
EARTH DISTURBED AREAS

NOTICE OF INTENT EARTH DISTURBED AREA: 47.6 ACRES
PROJECT EARTH DISTURBED AREA: 1.0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 48.6 ACRES

2019 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 NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT FOR THE SIDE ROADS AS DESCRIBED ON SHEETS 119 - 123 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: N 41°08'15" LONGITUDE: W 81°49'20"



PORTION TO BE IMPROVED

INTERSTATE HIGHWAY	---
FEDERAL ROUTES	---
STATE ROUTES	---
COUNTY & TOWNSHIP ROADS	---
OTHER ROADS	---

DESIGN DESIGNATION

FOR DESIGN DESIGNATIONS, SEE SHEET 2

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVER

NONE

PLAN PREPARED BY:



GPD GROUP
520 South Main Street
Marion, OH 44631
330.572.2100 Fax 330.572.2101
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UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

BEGIN PROJECT
STA. 85+31.78
S.R. 18

END PROJECT
STA. 197+58.89
S.R. 18

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NO.	DESCRIPTION	REV. BY	DATE
5	ADDED SHEET, ADDED SUPPLEMENTAL SPECIFICATION 840	TMT	1-22-2021

STANDARD CONSTRUCTION DRAWINGS

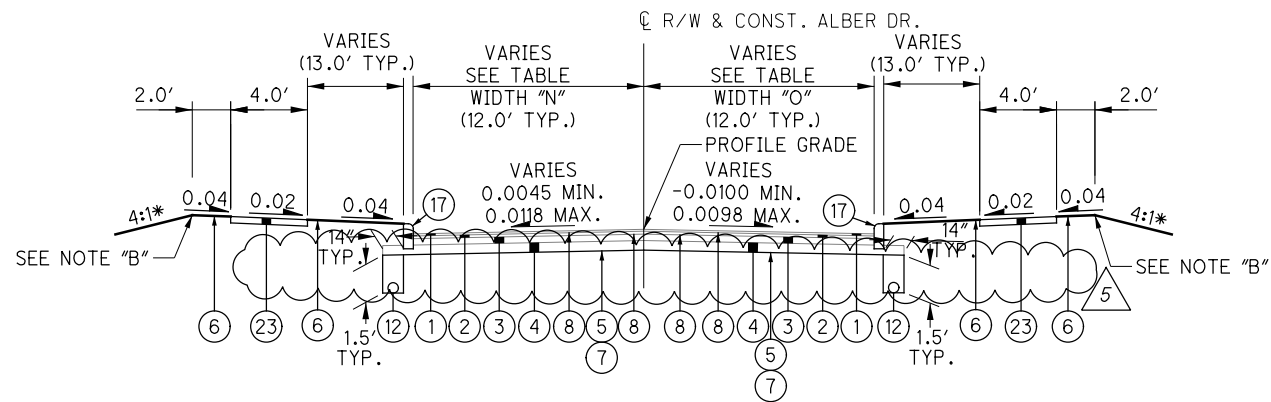
STANDARD CONSTRUCTION DRAWINGS												SUPPLEMENTAL SPECIFICATIONS			
BP-2.1	7/17/15	DM-1.1	7/17/20	MH-1.2	1/15/16	HL-30.11	7/17/20	MT-101.70	1/17/20	TC-41.30	10/18/13	TC-85.20	7/20/18	800-2019	10/16/20
BP-2.2	7/18/08	DM-1.2	1/18/13	MH-3.1	1/18/13	HL-30.21	4/17/20	MT-101.75	1/17/20	TC-41.40	10/18/13			807	7/17/20
BP-2.5	7/19/13	DM-2.1	1/18/13			HL-30.22	4/17/20	MT-101.90	7/17/20	TC-42.20	10/18/13			809	7/17/20
BP-3.1	1/17/20	DM-4.3	1/15/16	RM-1.1	7/18/14			MT-102.10	1/17/20	TC-51.11	1/15/16			821	4/20/12
BP-4.1	7/19/13	DM-4.4	1/15/16	RM-2.1	7/19/13			MT-105.10	1/17/20	TC-52.10	10/18/13			832	10/18/18
BP-5.1	1/18/19			RM-3.1	7/20/18	MT-95.31	7/19/19	MT-110.10	7/19/13	TC-52.20	7/20/18			840	1/15/21
BP-7.1	7/17/20	MGS-1.1	1/19/18	RM-5.2	1/18/19	MT-95.32	4/19/19	MT-120.00	1/19/18	TC-65.10	1/17/14			850	7/17/20
		MGS-2.1	1/19/18			MT-95.45	1/17/20			TC-65.11	7/21/17			895	4/18/14
CB-1.1	7/19/19	MGS-2.3	7/18/14	WQ-1.1	1/18/13	MT-95.60	4/19/19	TC-12.30	1/19/18	TC-71.10	1/19/18			909	7/17/20
CB-1.2	1/15/16	MGS-3.1	1/19/18	WQ-1.2	1/15/16	MT-95.61	4/19/19	TC-16.22	7/17/20	TC-81.21	1/18/19			921	4/20/12
CB-2.1	7/20/18	MGS-3.2	1/18/13			MT-97.10	4/19/19	TC-21.20	7/20/18	TC-82.10	7/19/19				
CB-2.2	7/20/18	MGS-4.2	7/19/13	HW-2.1	7/20/18	MT-97.12	1/20/17	TC-21.21	7/17/20	TC-83.10	1/17/20				
CB-4.2	1/18/13	MGS-4.3	1/18/13	HW-2.2	7/20/18	MT-99.20	4/19/19	TC-22.20	1/17/14	TC-83.20	7/21/17				
		MGS-5.2	7/15/16			MT-101.60	1/17/20	TC-41.20	10/18/13	TC-85.10	4/17/20				

SPECIAL PROVISIONS

WATERWAY PERMIT	3/1/24/20
NOI	5/17/19

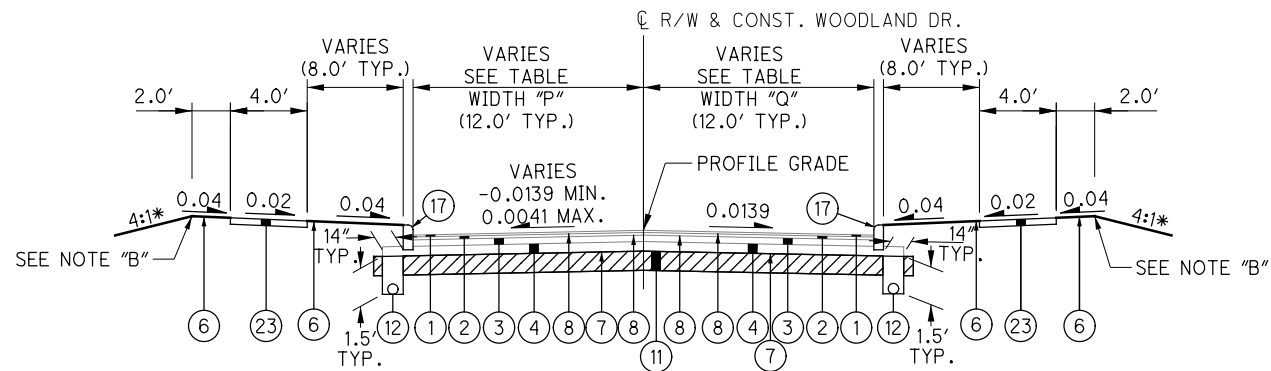
APPROVED: DATE: 07/18/2020 DISTRICT DEPUTY DIRECTOR

APPROVED: _____ DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION



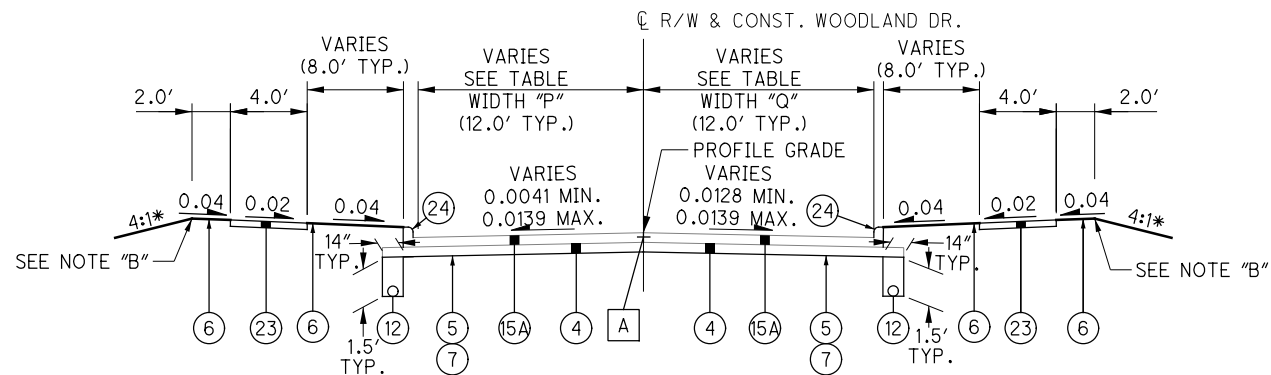
ALBER DRIVE FULL DEPTH SECTION

STA. 10+23.57 TO STA. 10+68.57



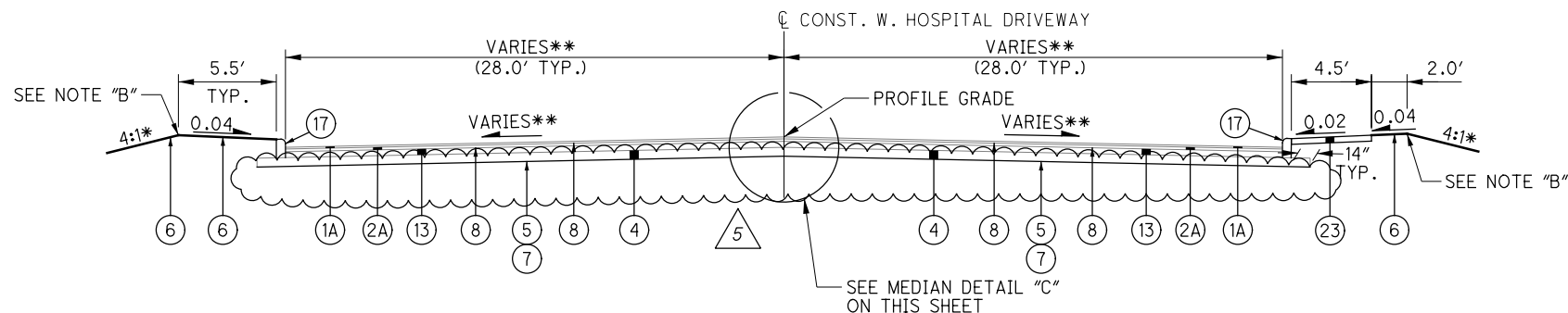
WOODLAND DRIVE FULL DEPTH SECTION

STA. 10+23.75 TO STA. 10+57.36



WOODLAND DRIVE FULL DEPTH SECTION

STA. 10+57.36 TO STA. 11+00.00

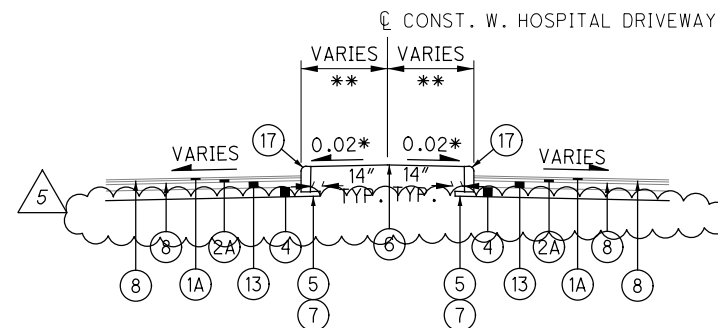


W. HOSPITAL DRIVEWAY FULL DEPTH SECTION

STA. 9+23.91 TO STA. 9+87.72

ROAD	WIDTH TABLE							
	WIDTH "N"				WIDTH "O"			
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
	FROM	TO	FROM	TO	FROM	TO	FROM	TO
ALBER DR	10+23.57	10+63.57	12.0	12.0	10+23.57	10+63.57	12.0	12.0
	10+63.57	10+68.57	12.0	11.9	10+63.57	10+68.57	12.0	11.6
WOODLAND DR.	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
	FROM	TO	FROM	TO	FROM	TO	FROM	TO
	10+23.75	10+96.00	12.0	12.0	10+23.75	10+96.00	12.0	12.0
	10+96.00	11+00.00	12.0	11.7	10+96.00	11+00.00	12.0	11.9

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED SUBGRADE STABILIZATION	TMT	1-22-2021



MEDIAN DETAIL "C"
W. HOSPITAL DRIVEWAY

STA. 9+25.96 TO STA. 9+62.00

NOTE "B"
 4'-0" ROUNDING

A LONGITUDINAL JOINTS PER BP-2.1 FOR LOCATIONS, SEE SHEETS 596-606

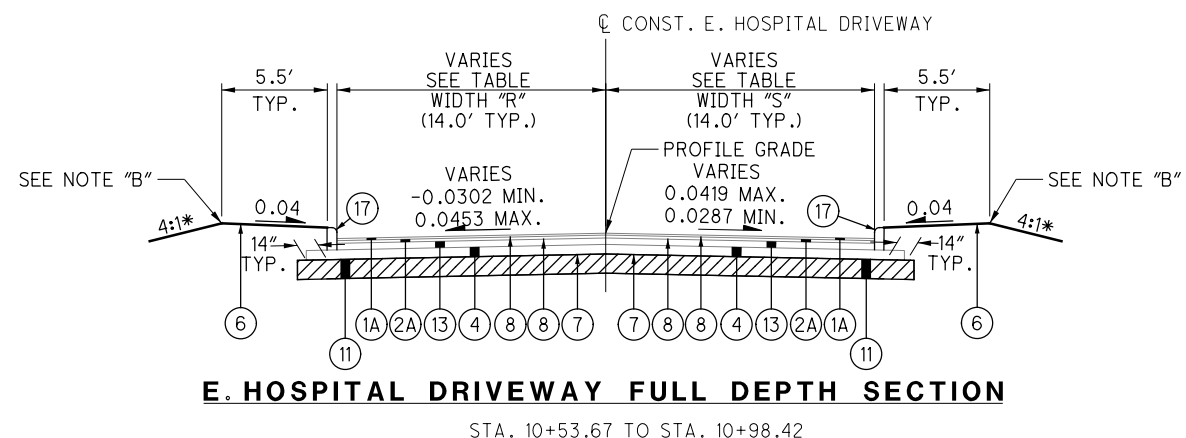
* OR AS SHOWN ON CROSS SECTIONS
 ** SEE INTERSECTION DETAILS ON SHEETS 545-565
 FOR PROPOSED LEGEND SEE SHEET 17
 FOR GRADING DETAILS, SEE SHEET 27

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PROPOSED TYPICAL SECTIONS

MED-18-12.99

ROAD	WIDTH TABLE							
	WIDTH "R"				WIDTH "S"			
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
	FROM	TO	FROM	TO	FROM	TO	FROM	TO
E. HOSPITAL DRIVEWAY	10+53.67	10+56.36	13.9	14.0	10+53.67	10+56.42	13.9	14.0
	10+56.36	10+98.42	14.0	14.0	10+56.42	10+98.42	14.0	14.0
GLENSHIRE LN.	WIDTH "T"				WIDTH "U"			
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
	FROM	TO	FROM	TO	FROM	TO	FROM	TO
	10+30.75	10+96.00	12.0	12.0	10+30.75	10+96.00	12.0	12.0
	10+96.00	11+00.00	12.0	11.6	10+96.00	11+00.00	12.0	12.1

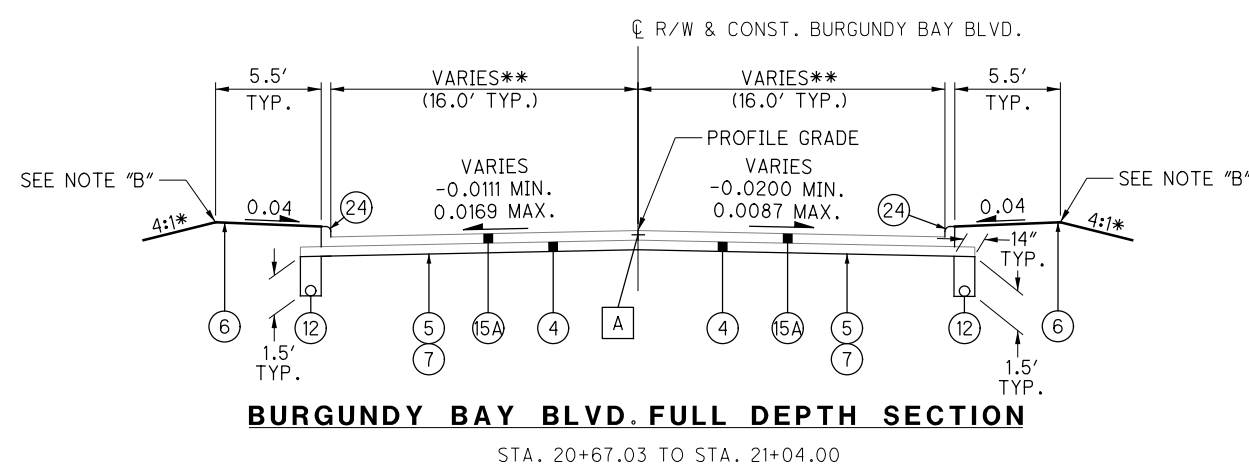
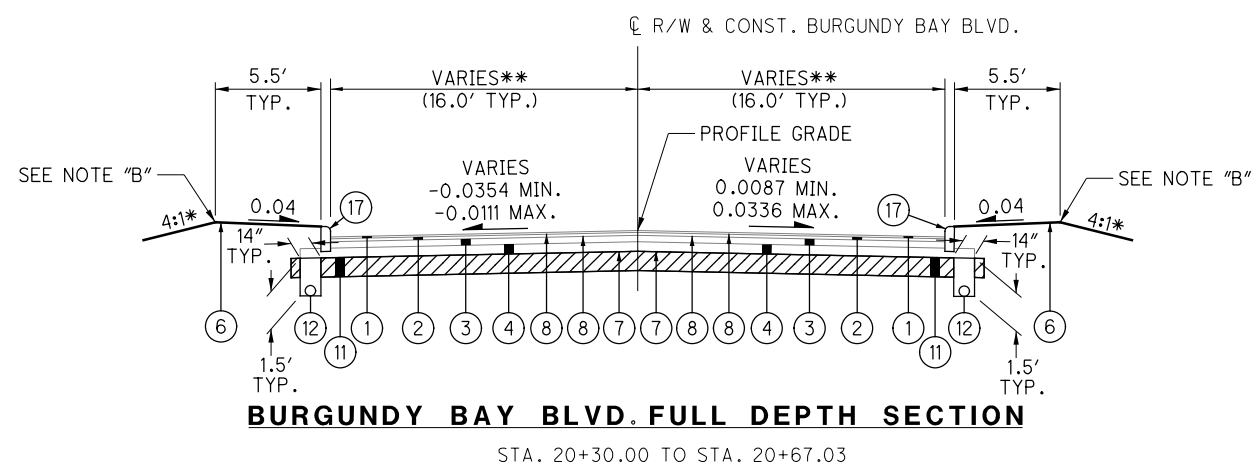
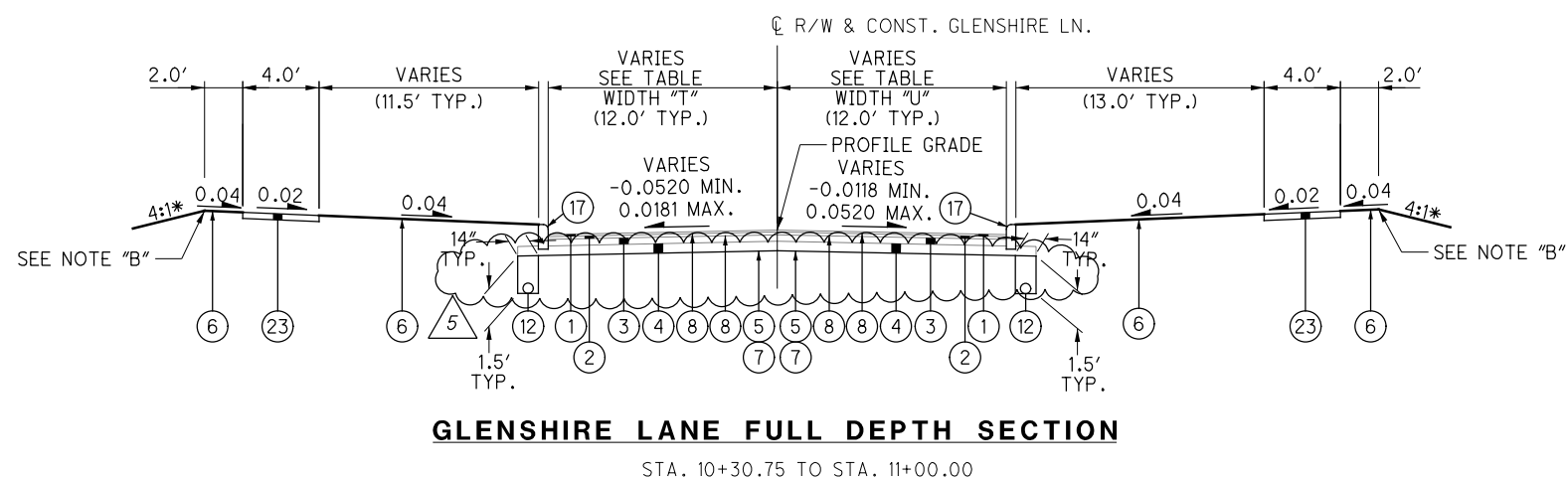


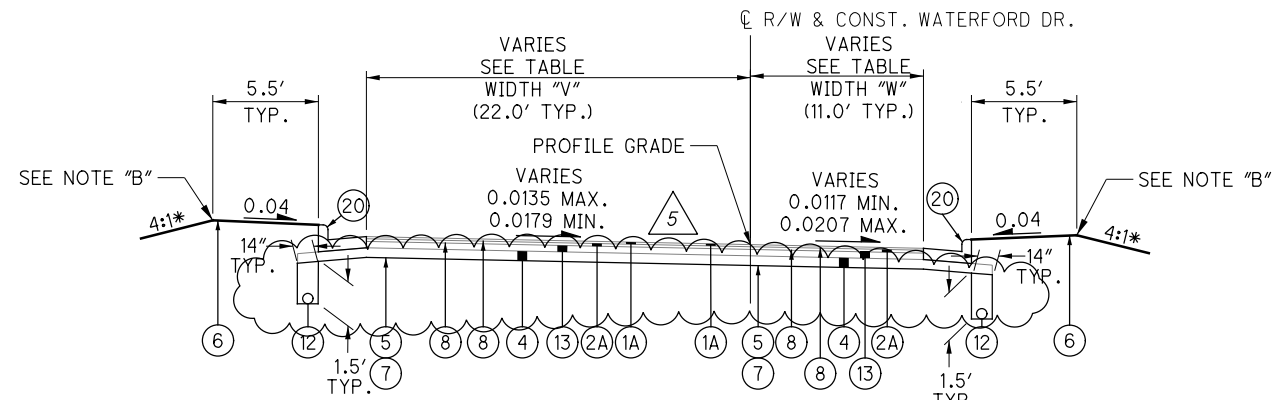
A LONGITUDINAL JOINTS PER BP-2.1 FOR LOCATIONS, SEE SHEETS 596-606

* OR AS SHOWN ON CROSS SECTIONS
** SEE INTERSECTION DETAILS ON SHEETS 545-565
FOR PROPOSED LEGEND SEE SHEET 17
FOR GRADING DETAILS, SEE SHEET 27

NOTE "B"
4'-0" ROUNDING

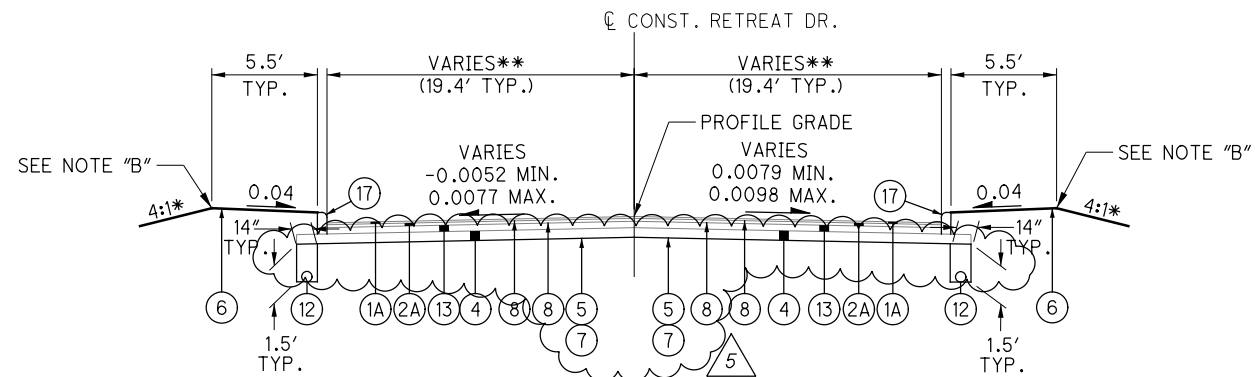
NO.	DESCRIPTION	REV. BY	DATE
5	REVISED SUBGRADE STABILIZATION	TMT	1-22-2021





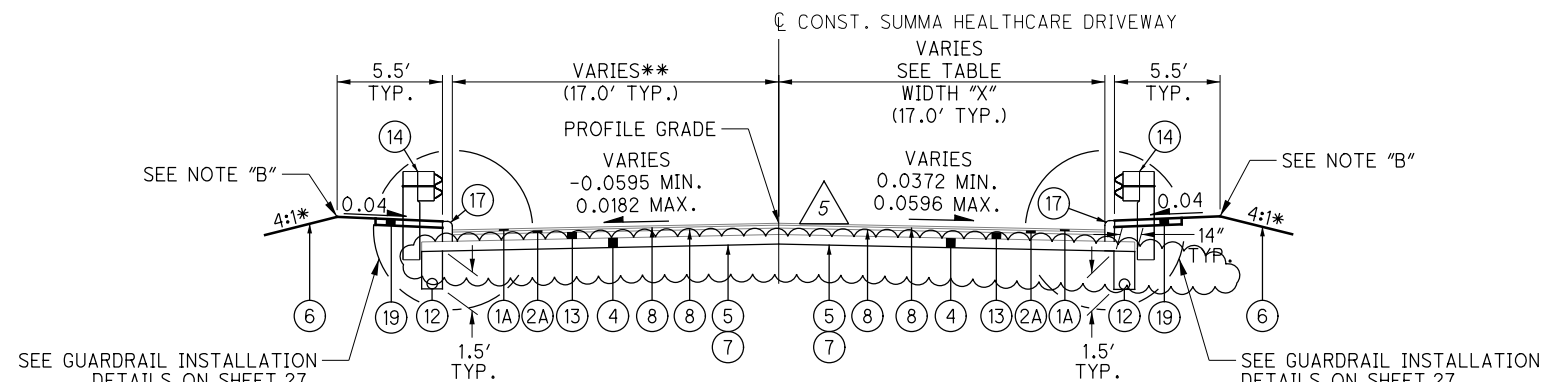
WATERFORD DRIVE FULL DEPTH SECTION

STA. 10+93.94 TO STA. 11+54.25



RETREAT DRIVE FULL DEPTH SECTION

STA. 10+30.00 TO STA. 10+51.70



SUMMA HEALTHCARE DRIVEWAY FULL DEPTH SECTION

STA. 10+25.00 TO STA. 11+39.61

ROAD	WIDTH TABLE							
	WIDTH "V"				WIDTH "W"			
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
WATERFORD DR.	FROM	TO	FROM	TO	FROM	TO	FROM	TO
	10+93.94	10+97.94	21.6	22.0	10+93.94	10+97.94	11.3	11.0
	10+97.94	11+54.25	22.0	22.0	10+97.94	11+54.25	11.0	11.0
SUMMA HEALTHCARE DRIVEWAY	WIDTH "X"							
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
	FROM	TO	FROM	TO	FROM	TO	FROM	TO
	10+25.00	10+26.00	16.9	17.0				
	10+26.00	11+39.61	17.0	17.0				

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED SUBGRADE STABILIZATION	TMT	1-22-2021

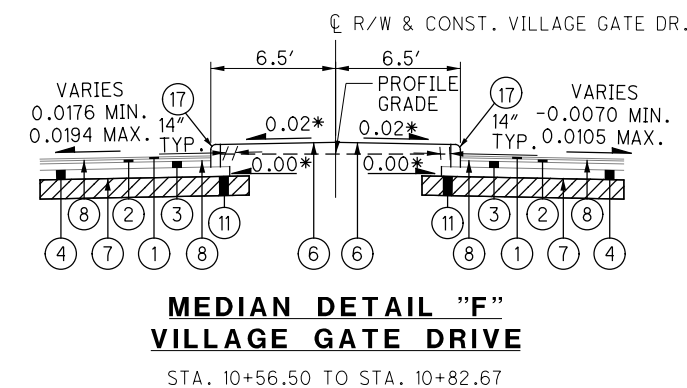
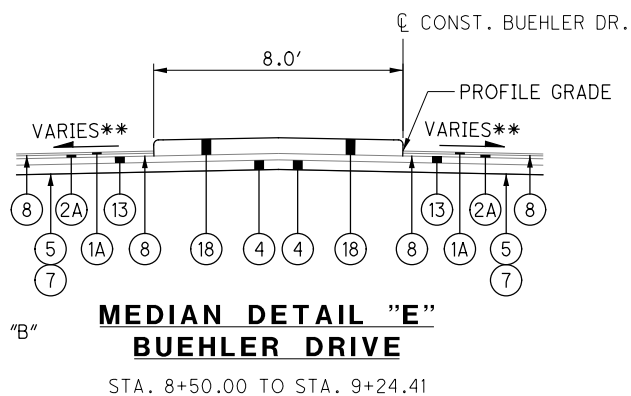
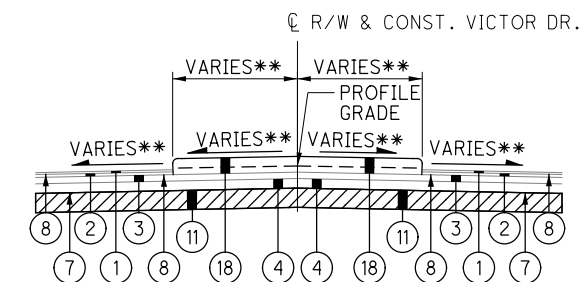
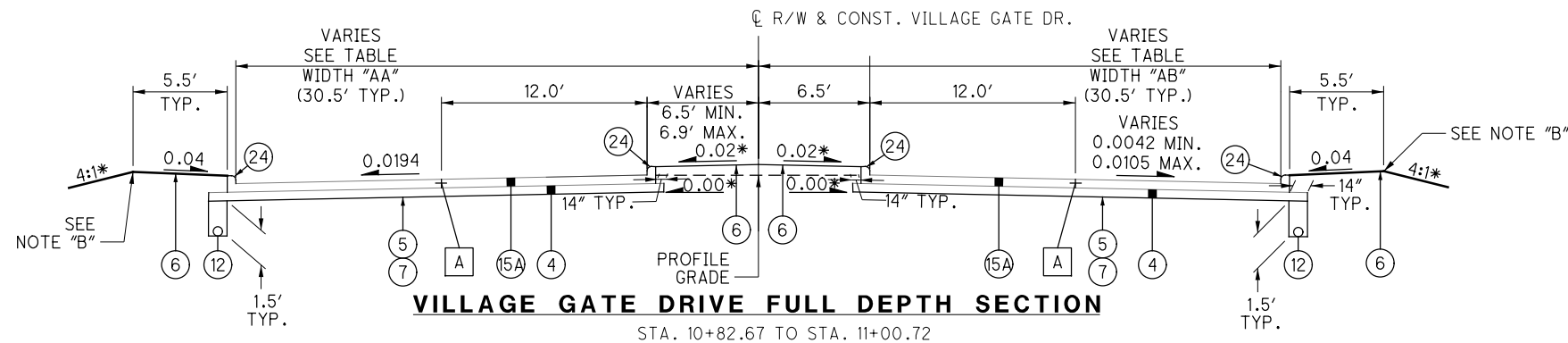
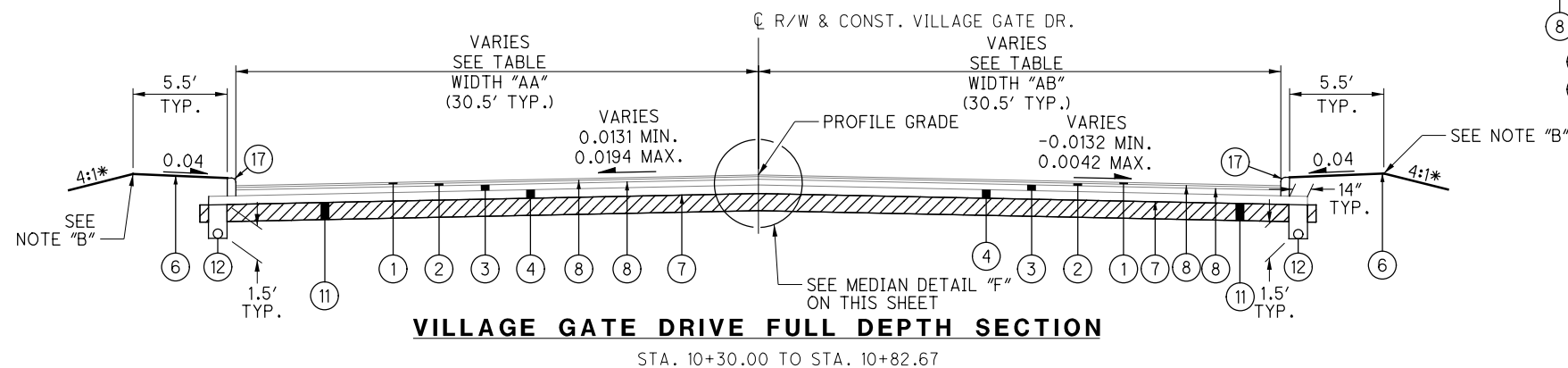
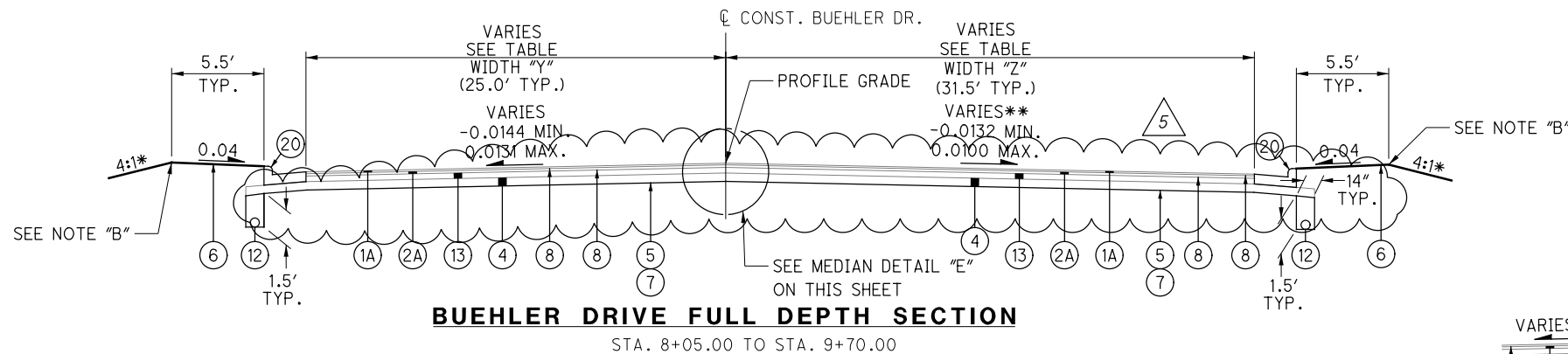
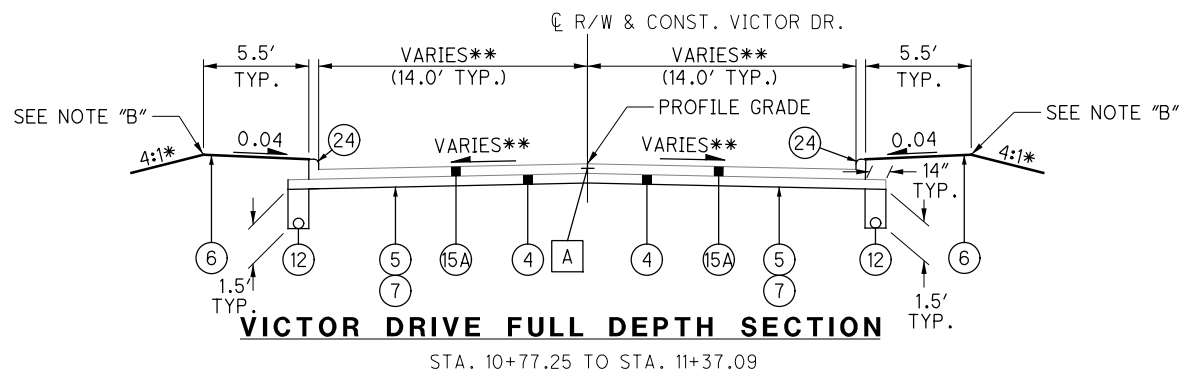
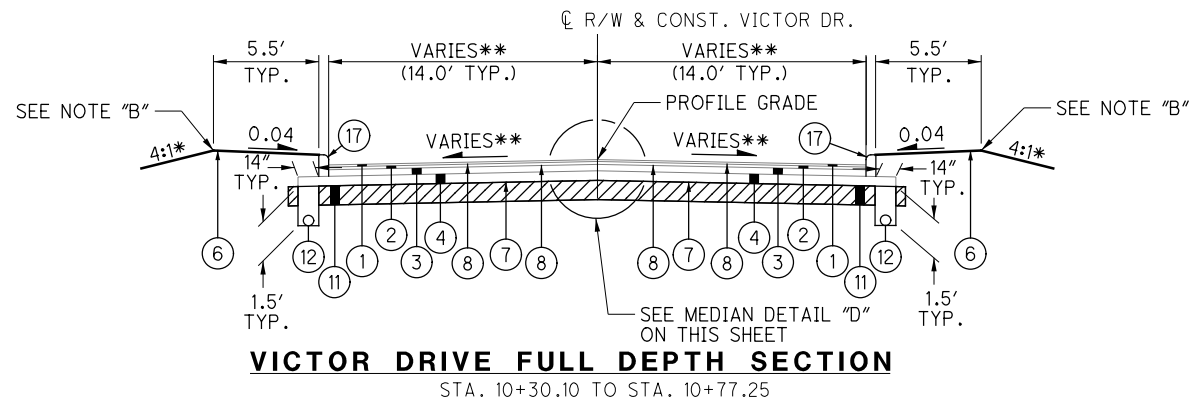
NOTE "B"
4'-0" ROUNDING

* OR AS SHOWN ON CROSS SECTIONS
** SEE INTERSECTION DETAILS ON SHEETS 545 - 565

FOR PROPOSED LEGEND SEE SHEET 17
FOR GRADING DETAILS, SEE SHEET 27

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ROAD	WIDTH TABLE							
	WIDTH "AA"				WIDTH "AB"			
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
VILLAGE GATE DR.	FROM	TO	FROM	TO	FROM	TO	FROM	TO
	10+30.00	10+90.72	30.5	30.5	10+30.00	10+90.72	30.5	30.5
	10+90.72	11+00.72	30.5	30.4	10+90.72	11+00.72	30.5	29.6
BUEHLER DR.	WIDTH "Y"				WIDTH "Z"			
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
	FROM	TO	FROM	TO	FROM	TO	FROM	TO
	8+05.00	8+50.00	25.0	25.0	8+05.00	8+25.00	33.12	31.5
	8+50.00	8+53.92	25.0	17.0	8+25.00	9+70.00	31.5	31.5
	8+53.92	9+20.49	17.0	17.0				
	9+20.49	9+24.41	17.0	25.0				
	9+24.41	9+70.00	25.0	25.0				



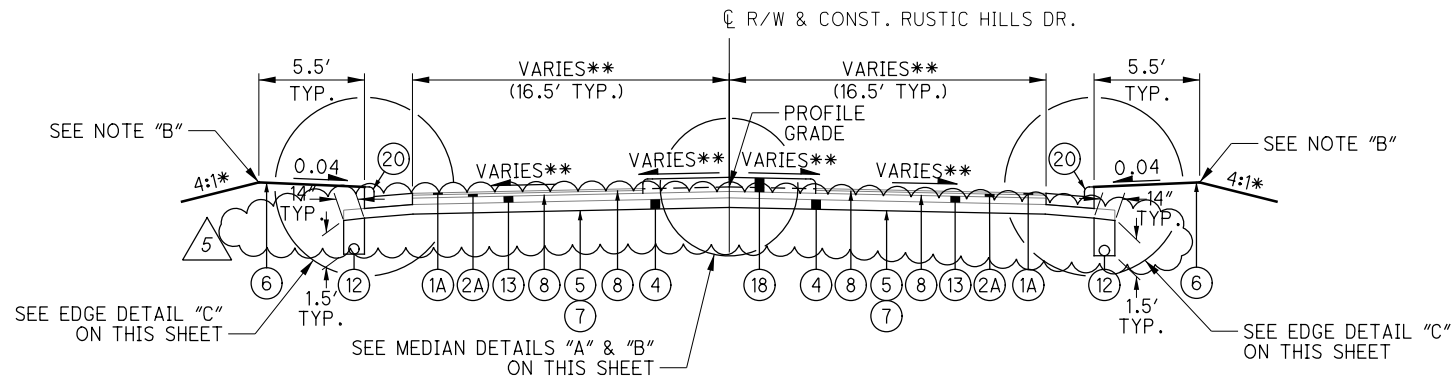
NO.	DESCRIPTION	REV. BY	DATE
5	REVISED SUBGRADE STABILIZATION	TMT	1-22-2021

NOTE "B"
4'-0" ROUNDING

A LONGITUDINAL JOINTS PER BP-2.1
FOR LOCATIONS, SEE SHEETS 596-606

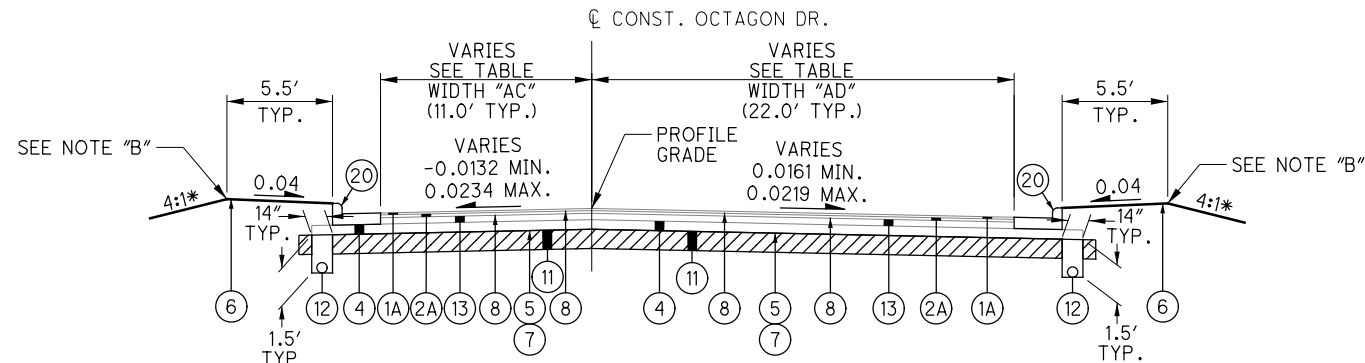
* OR AS SHOWN ON CROSS SECTIONS
** SEE INTERSECTION DETAILS ON SHEETS 545-565

FOR PROPOSED LEGEND SEE SHEET 17
FOR PAVEMENT ELEVATION TABLES, SEE SHEETS 543-544
FOR GRADING DETAILS, SEE SHEET 27



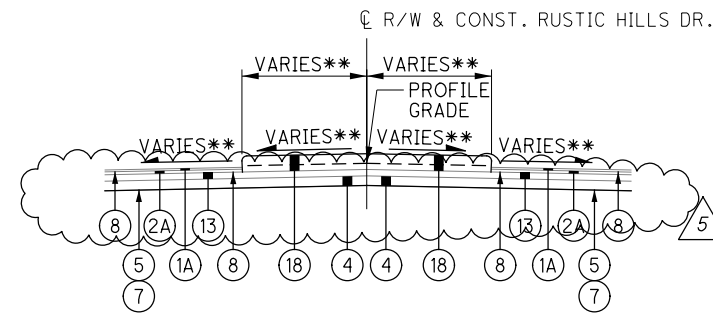
RUSTIC HILLS DRIVE FULL DEPTH SECTION

STA. 14+95.00 TO STA. 16+07.16



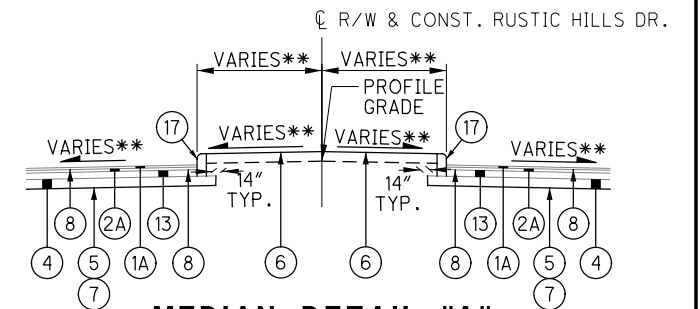
OCTAGON DRIVE FULL DEPTH SECTION

STA. 11+71.00 TO STA. 12+25.97



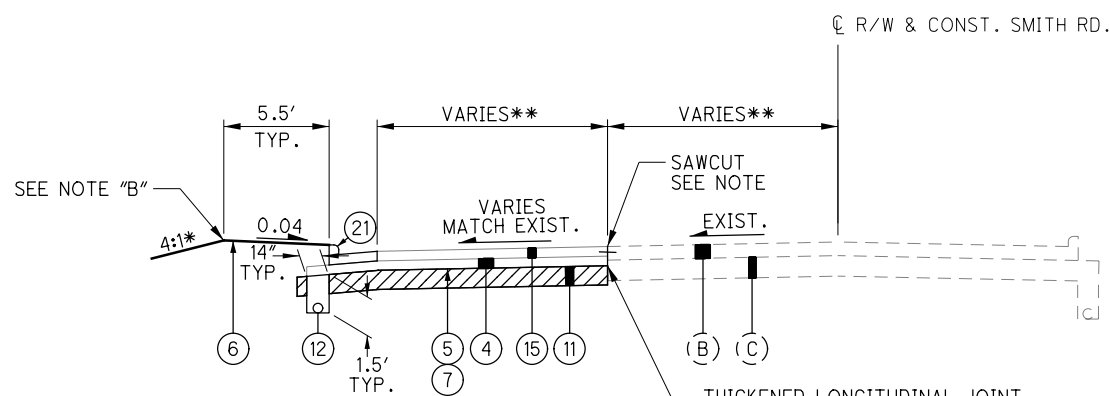
**MEDIAN DETAIL "B"
RUSTIC HILLS DRIVE**

STA. 15+75.00 TO STA. 16+02.24



**MEDIAN DETAIL "A"
RUSTIC HILLS DRIVE**

STA. 14+95.00 TO STA. 15+75.00

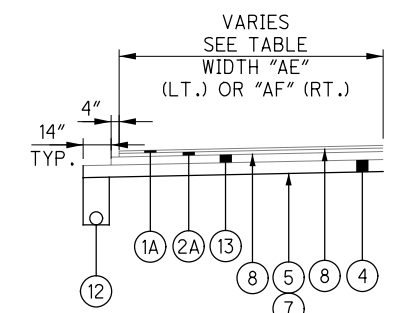


SMITH ROAD WIDENING SECTION

STA. 16+46.24 TO STA. 17+68.21
NOTE: PROPOSED TRANSVERSE JOINTS TO BE IN-LINE WITH EXISTING TRANSVERSE JOINTS

ROAD	WIDTH TABLE							
	WIDTH "AC"				WIDTH "AD"			
	STATION		WIDTH (FT.)		STATION		WIDTH (FT.)	
	FROM	TO	FROM	TO	FROM	TO	FROM	TO
OCTAGON DR.	11+71.00	11+72.00	11.04	11.0	11+71.00	11+72.00	21.9	22.0
	11+72.00	12+25.97	11.0	11.0	11+72.00	12+25.97	22.0	22.0
RUSTIC HILLS DR.	WIDTH "AE"				WIDTH "AF"			
	14+95.00	15+10.00	0.0	2.0	14+95.00	15+10.00	0.0	2.0

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED SUBGRADE STABILIZATION	TMT	1-22-2021



EDGE DETAIL "C"

STA. 14+95.00 TO STA. 15+10.00 LT./RT.

NOTE "B"
4'-0" ROUNDING

NOTE
THE EXISTING PAVEMENT SHALL
BE CUT TO LOCATE A SOUND
PAVEMENT EDGE AS PER SPEC
203.04 (E)

* OR AS SHOWN ON CROSS SECTIONS
** SEE INTERSECTION DETAILS ON SHEETS 545-565

FOR EXISTING LEGEND SEE SHEET 28
FOR PROPOSED LEGEND SEE SHEET 17
FOR GRADING DETAILS, SEE SHEET 27

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ROADWAY

ITEM 202 - REMOVAL, MISC.: BOLLARDS REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING BOLLARDS AT THE LOCATIONS SHOWN IN THE PLANS. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: CISTERN REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING CISTERNS AT THE LOCATIONS SHOWN IN THE PLANS. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: FLAG POLE REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING FLAG POLES AND FLAG POLE FOUNDATIONS AT THE LOCATIONS SHOWN IN THE PLANS. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: LIGHT REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING LIGHTS AND LIGHT FOUNDATIONS AT THE LOCATIONS SHOWN IN THE PLANS. IF THE LIGHTS TO BE REMOVED ARE WIRED AS PART OF A SERIES, THE CIRCUITS SHALL BE DISCONNECTED AND REWIRED AS NECESSARY IN ORDER TO KEEP THE SERIES WORKING AS IT WAS PRIOR TO THE REMOVAL. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO DISCONNECTION AND REWIRING OF CIRCUITS, EXCAVATION, BACKFILL, REMOVAL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: SIGN REMOVED

THIS ITEM SHALL CONSIST OF REMOVING AND DISPOSING OF PRIVATE SIGNS AT THE LOCATIONS SHOWN IN THE PLANS. THE PRICE BID SHALL ALSO INCLUDE THE REMOVAL AND DISPOSAL OF ALL ASSOCIATED ITEMS SUCH AS BUT NOT LIMITED TO LANDSCAPING TIMBERS, BRICK, STONE, MASONRY, ELECTRICAL DISCONNECT, ETC.

ITEM 202 - REMOVAL, MISC.: SHED REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING SHEDS AT THE LOCATIONS SHOWN IN THE PLANS. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: SPRINKLER HEAD REMOVED

THIS ITEM SHALL CONSIST OF DISCONNECTING, REMOVING, DISPOSING OF, AND BACKFILLING SPRINKLER HEADS AT THE LOCATIONS SHOWN IN THE PLANS. BEFORE REMOVING THE SPRINKLER HEADS, THE WATER SUPPLY SHALL BE CAPPED OR RECONNECTED TO CONTINUE THE DOWNSTREAM FLOW. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: SUMP PUMP VAULT REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING SUMP PUMP VAULTS AT THE LOCATIONS SHOWN IN THE PLANS. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: UTILITY VAULT

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING UTILITY VAULTS AT THE LOCATIONS SHOWN IN THE PLANS. BASED ON INFORMATION PROVIDED BY FRONTIER, THE VAULTS RANGE FROM 10'x5'x7' TO 12'x6'x11'-4" RECTANGULAR IN SHAPE, WITH CONCRETE WALLS, FLOOR AND ROOF. COMMUNICATION CABLES WILL BE ABANDONED BUT HAVE NOT BEEN REMOVED BY THE UTILITY COMPANY. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

IN ADDITION TO THE LOCATIONS LABELED IN THE PLANS, THERE ARE TWO (2) BURIED UTILITY VAULTS AT UNKNOWN LOCATIONS WITHIN THE LIMITS OF THE PROJECT THAT SHALL BE REMOVED. THE FOLLOWING QUANTITY HAS BEEN PROVIDED:

ITEM 202 - REMOVAL MISC.: UTILITY VAULT REMOVED 2 EACH

ITEM 202 - REMOVAL, MISC.: WALL REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING WALLS AT THE LOCATIONS SHOWN IN THE PLANS. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: BOOSTER STATION REMOVED (MEDINA COUNTY)

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING THE VAULT AND ALL EQUIPMENT ASSOCIATED WITH THE EXISTING/ABANDONED BOOSTER STATION LOCATED AT STA. 171+05.00 RT (S.R. 18). THE BOOSTER STATION WILL BE DISCONNECTED AND NO LONGER IN USE AT THE TIME OF REMOVAL. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: FIRE VAULT REMOVED (MEDINA COUNTY)

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING THE FIRE VAULT AND ALL EQUIPMENT ASSOCIATED WITH THE EXISTING FIRE VAULT LOCATED AT STA. 181+77.41 RT (S.R. 18) AND 171+80.20 RT (S.R. 18). THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION, BACKFILL AND DISPOSAL OF ASSOCIATED ITEMS, ETC.

ITEM 202 - REMOVAL, MISC.: DUCT BANK REMOVED

THIS ITEM SHALL CONSIST OF REMOVING, DISPOSING OF, AND BACKFILLING THE ABANDONED FRONTIER DUCT BANK AT VARIOUS LOCATIONS WITHIN THE PROJECT LIMITS THAT PHYSICALLY CONFLICT WITH PROPOSED WORK INCLUDING SUBGRADE STABILIZATION. BASED ON INFORMATION PROVIDED BY FRONTIER, THERE ARE ONE (1) TO NINE (9) DUCTS WITHIN THE BANK. THE DUCT BANK CONSISTS OF VITRIFIED TILE AND CONCRETE. THE COMMUNICATIONS CABLES IN THE DUCT BANK WILL BE ABANDONED BUT HAVE NOT BEEN REMOVED BY THE UTILITY COMPANY. THE PRICE BID SHALL ALSO INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK, INCLUDING BUT NOT LIMITED TO EXCAVATION AND BACKFILL.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

ITEM 202 - REMOVAL MISC.: DUCT BANK REMOVED 4,000 FT.

5

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GENERAL NOTES

MED - 18 - 12.99

NO.	DESCRIPTION	REV. BY	DATE
5	ADDED INFORMATION ABOUT EXISTING UTILITY ITEMS TO BE REMOVED	TMT	01-22-2021

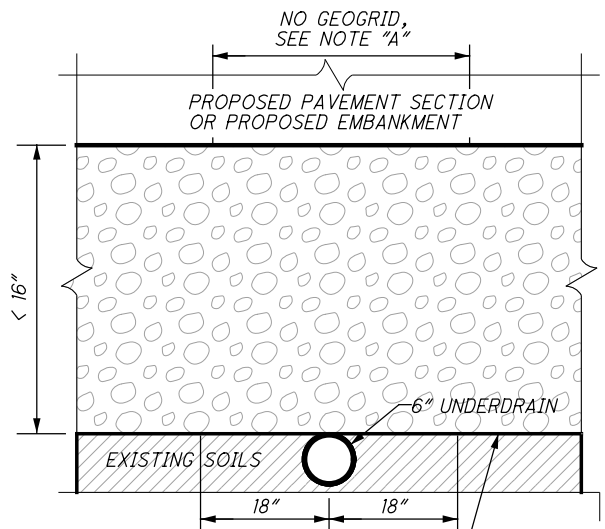
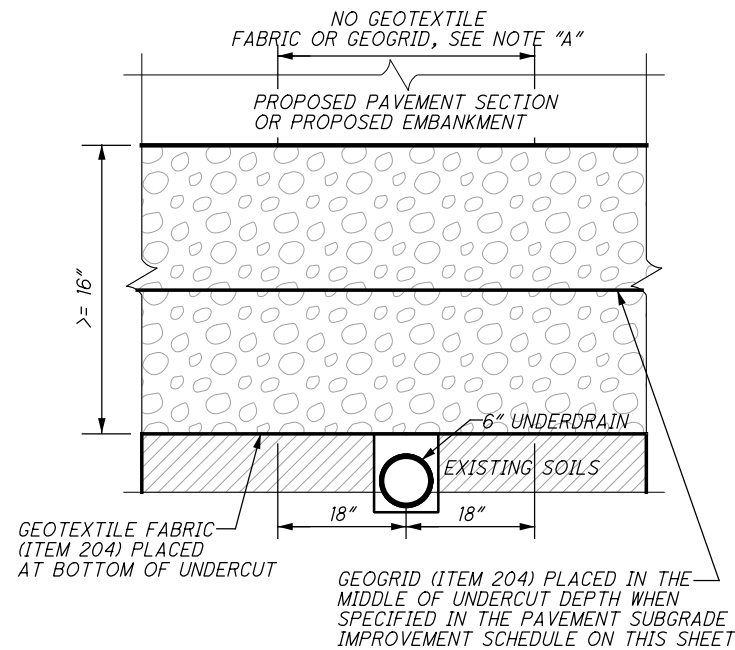
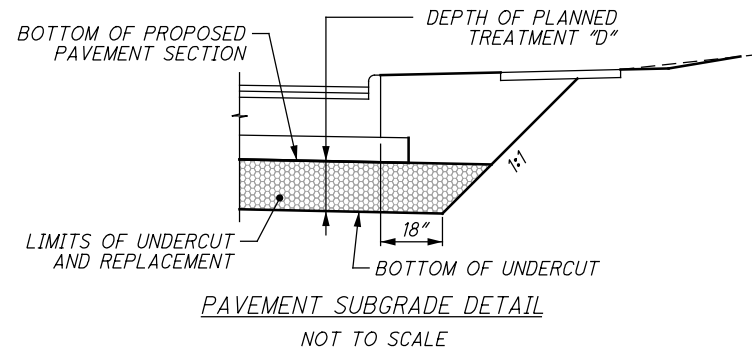
QUANTITIES CARRIED TO GENERAL NOTES SUBSUMMARY ON SHEET 55

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ROADWAY

SUBGRADE STABILIZATION



GEOGRID (ITEM 204) PLACED AT BOTTOM OF UNDERCUT AND ABOVE GEOTEXTILE FABRIC WHEN SPECIFIED IN THE PAVEMENT SUBGRADE IMPROVEMENT SCHEDULE ON THIS SHEET

NOTE "A":
THE CONTRACTOR SHALL SUSPEND THE USE OF GEOTEXTILE FABRIC AND GEOGRID WITHIN 18" OF EITHER SIDE OF A CONFLICTING UNDERDRAIN.

DETAIL - UNDERCUT/ REPLACEMENT TREATMENT METHOD
NOT TO SCALE

ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION)

APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO SUPPLEMENT 1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

ITEM 517 - RAILING, PIPE, AS PER PLAN

THE HANDRAIL THAT IS TO BE PROVIDED IS TO BE OF THE TYPE AND SPECIFICATIONS AS DESCRIBED IN ODOT STANDARD DRAWING RM-2.1. ALL LABOR, MATERIALS, AND INCIDENTALS NECESSARY FOR FABRICATION, DELIVERY, AND INSTALLATION OF THE HANDRAIL SHALL BE INCLUDED FOR PAYMENT WITH ITEM 517-RAILING, PIPE, AS PER PLAN.

ITEM 608 - 6" CONCRETE WALK, AS PER PLAN
ITEM 608 - 8" CONCRETE WALK, AS PER PLAN

ALL REQUIREMENTS OF SECTION 608 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL APPLY WITH THE FOLLOWING MODIFICATION: CONCRETE SHALL BE QC MS WITHIN THE DRIVE LIMITS AS SHOWN IN THE DETAIL ON SHEET 607

ITEM 204 - GEOGRID

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING EITHER OF THE FOLLOWING TYPES OF GEOGRID OR AN APPROVED EQUAL:

1. TENSAR TX-1600 OR BX-1300
2. HUESKER FORNIT 30
3. TENAX LBO 302

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNDERCUTS. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL, SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO 204.05.

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.
3. COMPACT THE SUBGRADE ACCORDING TO 204.03.
4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNDERCUTS. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO 204.06.
5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO 204.06 TO VERIFY STABILITY.
7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204 EXCAVATION OF SUBGRADE.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ASSEMBLY, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED LIMITS OF SUBGRADE STABILIZATION	TMT	1-22-2021

PAVEMENT SUBGRADE IMPROVEMENT SCHEDULE					
ALIGNMENT	BEGIN STATION	END STATION	DEPTH OF TREATMENT 'D'	TREATMENT METHOD	BACKFILL MATERIAL
☒ CONST. S.R. 18	85+31.78	154+90.00	12"	CHEMICAL	-
	154+90.00	158+90.00	36" W/ GEOGRID	UNDERCUT	GRANULAR
	158+90.00	197+58.89	12"	CHEMICAL	-
☒ CONST. FRONTAGE RD.	BEGIN	END	12"	CHEMICAL	-
☒ CONST. N. FRONTAGE RD.	BEGIN	END	12"	CHEMICAL	-
☒ CONST. S. FRONTAGE RD.	BEGIN	END	12"	CHEMICAL	-
☒ CONST. FOOTE RD.	16+24.37	16+88.98	12"	CHEMICAL	-
	17+49.21	18+15.04	12"	CHEMICAL	-
	20+80.00	23+60.00	36" W/ GEOGRID	UNDERCUT	GRANULAR
☒ CONST. RIVER STYX RD.	903+65.00	905+50.00	12" W/ GEOGRID	UNDERCUT	GRANULAR
	909+50.00	913+50.00	12" W/ GEOGRID	UNDERCUT	GRANULAR
	921+45.53	922+04.12	12"	CHEMICAL	-
☒ SHADY BROOKE LANE	922+76.65	923+37.87	12"	CHEMICAL	-
☒ R/W & CONST. WOODLAND DR.	S.R. 18	10+57.36	12"	CHEMICAL	-
☒ CONST. E. HOSPITAL DRIVEWAY	BEGIN	END	12"	CHEMICAL	-
☒ R/W & CONST. BURGUNDY BAY BLVD.	S.R. 18	20+67.03	12"	CHEMICAL	-
☒ R/W & CONST. VICTOR DR.	S.R. 18	10+77.25	12"	CHEMICAL	-
☒ R/W & CONST. VILLAGE GATE DR.	S.R. 18	10+82.67	12"	CHEMICAL	-
☒ CONST. OCTAGON DR.	BEGIN	END	12" W/ GEOGRID	UNDERCUT	GRANULAR
☒ R/W & CONST. SMITH RD.	BEGIN	END	12" W/ GEOGRID	UNDERCUT	GRANULAR

IN AREAS OF EXISTING AND PROPOSED UTILITIES, WATER MAINS AND DRAINAGE SYSTEMS THE CONTRACTOR SHALL HAND DIG FOR UNDERCUT AS NECESSARY TO AVOID IMPACTS.

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GENERAL NOTES

MED - 18 - 12.99

ITEM 614 - MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

1. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS ADJACENT TO MAINTAINED LANES SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER STANDARD CONSTRUCTION DRAWING MT-101.90.
2. ONLY DURING OFF-PEAK PERIODS SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
3. PRIOR TO OPENING TRAFFIC, EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. BECAUSE OF THE REQUIREMENT TO PLACE THE ASPHALT SURFACE COURSE OVER THE ENTIRE ROADWAY DURING PHASE 8, IT MAY BE NECESSARY FOR THE CONTRACTOR TO PROVIDE TEMPORARY RAMPING OF OBSTRUCTIONS IN THE PATH OF TRAFFIC SUCH AS MANHOLES, VALVES, AND CATCH BASINS. ASPHALT WEDGES SHALL ALSO BE PROVIDED FOR UNEVEN TRANSVERSE AND LONGITUDINAL JOINTS. SUFFICIENT TEMPORARY ASPHALT SHALL BE PLACED SO AS TO PROVIDE A SMOOTH TRANSITION FOR THE TRAVELING PUBLIC. PRIOR TO PLACING THE SURFACE COURSE, ALL TEMPORARY RAMPING AND WEDGE MATERIAL SHALL BE REMOVED IN A NEAT MANNER AND SHALL BE INCLUDED IN THE COST OF THIS ITEM. THE FOLLOWING QUANTITY IS INCLUDED IN THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY:

ITEM 614, ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 100 CY

4. THE FOLLOWING SIGNS SHALL BE PLACED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE OMUTCD: W8-1 [BUMP] AND W8-11 [UNEVEN LANES].
5. ACCESS TO LAKE MEDINA PARK WILL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES EXCEPT FOR A PERIOD NOT TO EXCEED TWO (2) DAYS.
6. THE MEDINA COUNTY PARK DISTRICT WILL BE GIVEN 30 DAYS ADVANCE NOTICE OF A CLOSURE TO THE LAKE MEDINA PARK SR-18 ENTRANCE.
7. SIGNS WILL BE POSTED 14 DAYS IN ADVANCE AT THE LAKE MEDINA PARK SR-18 ENTRANCE NOTIFYING THE PUBLIC OF THE CLOSURE TO THE PARK ENTRANCE.
8. APPROPRIATE SIGNAGE WILL BE INSTALLED TO ALERT USERS OF CONSTRUCTION ACTIVITIES, IF IN PROXIMITY TO RECREATIONAL FACILITIES OR FEATURES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT U.S. MAIL DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS. THIS RESPONSIBILITY IS LIMITED TO RELOCATION OF MAILBOXES TO A TEMPORARY LOCATION THAT WILL ALLOW THE COMPLETION OF THE WORK AND SHALL INCLUDE THE RESTORATION OF MAILBOXES TO THEIR ORIGINAL LOCATION OR APPROVED NEW LOCATION. ANY RELOCATION OF MAILBOX SERVICES MUST FIRST BE COORDINATED WITH THE U.S. POSTAL SERVICE AND AFFECTED PROPERTY OWNERS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM 614 - MAINTAINING TRAFFIC.
10. THE CONTRACTOR SHALL MAINTAIN THE SCHOOL SIGNAL FLASHERS AND END SCHOOL SPEED LIMIT/END SCHOOL ZONE SIGNS ON S.R. 18 FOR THE FIRST BAPTIST CHURCH NEAR VICTOR DRIVE AT ALL TIMES DURING CONSTRUCTION UTILIZING EITHER EXISTING, PROPOSED, OR WORK ZONE SIGNS, AS DIRECTED BY THE ENGINEER. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

ITEM 614 - MAINTAINING TRAFFIC (CONTINUED)

11. NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT SHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE	
DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

12. THE CONTRACTOR SHALL INSTALL END ANCHOR ASSEMBLIES FOR THE INTERMEDIATE PHASING OF GUARDRAIL CONSTRUCTION. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614- MAINTAINING TRAFFIC.
13. NO WORK SHALL BE PERFORMED AND A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	THANKSGIVING
NEW YEARS	FOURTH OF JULY
MEMORIAL DAY	LABOR DAY

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME THAT ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THRU 6:00AM MONDAY
MONDAY	12:00N FRIDAY THRU 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THRU 6:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THRU 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THRU 6:00AM FRIDAY
THURSDAY (Thanksgiving Only)	6:00AM WEDNESDAY THRU 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THRU 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THRU 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$50 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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 ITEM 614- MAINTAINING TRAFFIC.

WINTER-OVER PHASE ESTIMATE QUANTITIES

THE ESTIMATED ITEMS APPEARING BELOW HAVE BEEN PROVIDED FOR THE CONTRACTOR'S USE WHEN PLACING TRAFFIC INTO A WINTER-OVER PHASE AT THE CONCLUSION OF THE CONSTRUCTION SEASON AND AFTER THE COMPLETION OF MAJOR CONSTRUCTION PHASES.

COSTS ASSOCIATED WITH PLACING TRAFFIC INTO THE WINTER-OVER ZONE SHALL BE INCLUDED IN THE ITEMS LISTED BELOW AND WITH THE COST BID FOR ITEM 614 - MAINTAINING TRAFFIC.

AT THE CONCLUSION OF THE FIRST CONSTRUCTION SEASON (AFTER PHASE 4), THE CONTRACTOR SHALL PLACE S.R. 18 TRAFFIC INTO THE WINTER-OVER ZONE CONFIGURATION, AS SHOWN IN THE DETAILED PLANS, AND APPLY THE FOLLOWING WORK ZONE PAVEMENT MARKINGS QUANTITIES OUTSIDE OF WHAT IS SHOWN IN THE DETAILED MAINTENANCE OF TRAFFIC PLANS.

ITEM 614, WORK ZONE LANE LINE, 4"	1.90 MILE
ITEM 614, WORK ZONE CENTER LINE, CLASS I	1.34 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4"	1.10 MILE
ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS I, 8"	2,880 FT
ITEM 614, WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	760 FT
ITEM 614, WORK ZONE STOP LINE, CLASS I	560 FT
ITEM 614, WORK ZONE CROSSWALK LINE, CLASS I	1117 FT
ITEM 614, WORK ZONE LANE ARROW, CLASS I	74 EACH
ITEM 614, WORK ZONE ISLAND MARKING, CLASS I	332 SF
ITEM 614, WORK ZONE DOTTED LINE	186 FT
ITEM 614, WORK ZONE WORD ON PAVEMENT, 72"	1 EACH

AFTER THE COMPLETION OF PHASE 8 AND FOR THE SURFACE COURSE PRIOR TO FINAL PAVEMENT MARKINGS, THE CONTRACTOR SHALL APPLY THE FOLLOWING WORK ZONE PAVEMENT MARKING QUANTITIES (THE FOLLOWING ARE THE PROPOSED TRAFFIC CONTROL QUANTITIES TIMES TWO APPLICATIONS):

ITEM 614, WORK ZONE LANE LINE, 4"	10.02 MILE
ITEM 614, WORK ZONE CENTER LINE, CLASS I	8.46 MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4"	2.28 MILE
ITEM 614, WORK ZONE CHANNELIZING LINE, CLASS I, 8"	15,336 FT
ITEM 614, WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I	3,772 FT
ITEM 614, WORK ZONE STOP LINE, CLASS I	2,712 FT
ITEM 614, WORK ZONE CROSSWALK LINE, CLASS I	6,072 FT
ITEM 614, WORK ZONE LANE ARROW, CLASS I	372 EACH
ITEM 614, WORK ZONE ISLAND MARKING, CLASS I	1,188 SF
ITEM 614, WORK ZONE SCHOOL SYMBOL MARKING, 120"	8 EACH
ITEM 614, WORK ZONE DOTTED LINE	5,004 FT
ITEM 614, WORK ZONE WORD ON PAVEMENT, 72"	2 EACH

ITEM 411 - STABILIZED CRUSHED AGGREGATE

THE CONTRACTOR SHALL FURNISH STABILIZED CRUSHED AGGREGATE IN ACCORDANCE WITH C&MS 411 AND AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE TEMPORARY PAVEMENT AGGREGATE SHOULDERS:

ITEM 411, STABILIZED CRUSHED AGGREGATE	260 CY
--	--------

SHEET NUMBER							PARTICIPATION								ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	JMB	CHECKED	MDG
55	292	293	294	297	332	337	01/NHS/PV	02/NHS/PV	03/ENH/PV	04/ENH/PV	06/ENH/OT	07/ENH/OT	08/ENH/OT											
ROADWAY (CONTINUED)																								
31							15	10	4	2				623	38500	31	EACH	MONUMENT ASSEMBLY	35					
2							1	1						623	40500	2	EACH	REFERENCE MONUMENT	35					
192							95	63	20	14				623	40520	192	EACH	RIGHT-OF-WAY MONUMENT	35					
					35		13	8	8	6				SPECIAL	69050100	35	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	38					
EROSION CONTROL																								
8	327		6				4	2						601	11000	6	SY	RIPRAP, TYPE D						
	42						201	134						601	21050	335	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT						
							25	17						601	21060	42	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT						
			143				74	50	11	8				601	32004	143	CY	ROCK CHANNEL PROTECTION, TYPE A WITH GEOTEXTILE FABRIC						
			11				7	4						601	32104	11	CY	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC						
	7		44				31	20						601	32110	51	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER						
	13						8	5						601	32200	13	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER						
	2						1	1						601	32210	2	CY	ROCK CHANNEL PROTECTION, TYPE C WITH AGGREGATE FILTER						
	342						158	105	47	32				601	37501	342	FT	PAVED GUTTER, TYPE 1-2, AS PER PLAN	40					
														659	00100	4	EACH	SOIL ANALYSIS TEST						
							3745	2496	934	623				659	00300	7798	CY	TOPSOIL						
							33734	22490	8419	5612				659	10000	70255	SY	SEEDING AND MULCHING						
							1687	1124	421	281				659	14000	3513	SY	REPAIR SEEDING AND MULCHING						
							1687	1124	421	281				659	15000	3513	SY	INTER-SEEDING						
							4.7	3.14	1.18	0.78				659	20000	9.8	TON	COMMERCIAL FERTILIZER						
							6.97	4.65	1.74	1.16				659	31000	14.52	ACRE	LIME						
							187	124	47	31				659	35000	389	MGAL	WATER						
		938					563	375						670	00700	938	SY	DITCH EROSION PROTECTION						
						LS	LS	LS						832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN						
						LS	LS	LS						832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS						
						LS	LS	LS						832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE						
						114607	68764	45843						832	30000	114607	EACH	EROSION CONTROL						
ENVIRONMENTAL / REMEDIATION																								
600							360	240						SPECIAL	69065016	600	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL						
150							90	60						SPECIAL	69065022	150	GAL	WORK INVOLVING NON-REGULATED WATER			41			
150							90	60						SPECIAL	69065024	150	GAL	WORK INVOLVING REGULATED WATER			41			
DRAINAGE																								
	6.5		6.4				5.8	3.8	2.0	1.3				602	20000	12.9	CY	CONCRETE MASONRY						
40	1969						833	556	348	232				605	12210	1969	FT	6" DEEP PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31						
	1088						416	278	260	174				605	13410	1128	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31						
	46645						25173	16782	2814	1876				605	14020	46645	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31						
	1706						768	512	256	170				611	00510	1706	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS						
200							120	80						611	00900	200	FT	6" CONDUIT, TYPE B						
200							120	80						611	01100	200	FT	6" CONDUIT, TYPE C						
200							120	80						611	01400	200	FT	6" CONDUIT, TYPE E						
240							144	96						611	01500	240	FT	6" CONDUIT, TYPE F						
		3					2	1						611	01800	3	FT	8" CONDUIT, TYPE B, 707.42						
		2763					1658	1105						611	04400	2763	FT	12" CONDUIT, TYPE B						
		26					16	10						611	04400	26	FT	12" CONDUIT, TYPE B, 706.02						
		1310					203	135	583	389				611	04400	1310	FT	12" CONDUIT, TYPE B, 706.02 (CLASS IV)						
		148							89	59				611	04400	148	FT	12" CONDUIT, TYPE B, 706.02 (CLASS IV) WITH 706.11 JOINTS						
		26							16	10				611	04400	26	FT	12" CONDUIT, TYPE B, 707.42						
		674					404	270						611	04400	674	FT	12" CONDUIT, TYPE B, 748.02						
		411					247	164						611	04600	411	FT	12" CONDUIT, TYPE C						
		20					12	8						611	04600	20	FT	12" CONDUIT, TYPE C, 706.02						
		388					56	37	177	118				611	04600	388	FT	12" CONDUIT, TYPE C, 706.02 (CLASS IV)						
		21					13	8						611	04600	21	FT	12" CONDUIT, TYPE C, 707.42						

GENERAL SUMMARY

MED - 18 - 12.99

286
1085

D:\2013\2013\13\MED\92965\ROADWAY SHEETS\929650002.DGN
1/25/2021
3:31:21 PM
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NO.	DESCRIPTION	REV. BY	DATE
5	REVISED EARTHWORK QTY'S FOR DETENTION POND #1	TMT	1-22-2021

SHEET NO.	SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL			SPECIAL																			
	8" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (CITY OF MEDINA)			12" WATER MAIN DIP CLASS 52 MECHANICAL JOINTS AND FITTINGS (CITY OF MEDINA)			6" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY)			8" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY)			12" WATER MAIN POLYVINYL CHLORIDE PIPE (C-900 OR C-909), DUCTILE IRON MECHANICAL JOINTS AND FITTINGS (MEDINA COUNTY)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "EXTENSION" (CITY OF MEDINA)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "EXTENSION" (MEDINA COUNTY)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "RECONNECTION" (MEDINA COUNTY)			WATER WORK, MISC.: WATER SERVICE CONNECTION, "RECONNECTION" (CITY OF MEDINA)			6" GATE VALVE WITH VALVE BOX (MEDINA COUNTY)			8" GATE VALVE WITH VALVE BOX (CITY OF MEDINA)			8" GATE VALVE WITH VALVE BOX (MEDINA COUNTY)							
	FT			FT			FT			FT			FT			EACH			EACH			EACH			EACH			EACH			EACH			EACH							
	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	07/ENH/OT	01/NHS/PV 02/NHS/PV	06/ENH/OT		03/ENH/PV 04/ENH/PV	06/ENH/OT	03/ENH/PV 04/ENH/PV	06/ENH/OT	03/ENH/PV 04/ENH/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	06/ENH/OT	07/ENH/OT		06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT		06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT		06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT		06/ENH/OT				
319	1301	605	669	20			1374						2	5			3			2	1	3					2														
320							49	225			3528																														
321					69										4	2																									
322																																									
TOTALS CARRIED TO GENERAL SUMMARY	1301	605	669	20	69		1423	225		3528			2	5	4	2	3		2	2	1	3				2	2														
SHEET NO.	SPECIAL		SPECIAL				SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL			SPECIAL			SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		
	12" GATE VALVE WITH VALVE BOX (CITY OF MEDINA)		12" GATE VALVE WITH VALVE BOX (MEDINA COUNTY)		FIRE HYDRANT AND GATE VALVE REMOVED AND RESET (CITY OF MEDINA)				FIRE HYDRANT AND GATE VALVE REMOVED AND RESET (MEDINA COUNTY)		FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE (CITY OF MEDINA)		FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED TO GRADE (MEDINA COUNTY)		12" X 8" TAPPING SLEEVE, VALVE AND VALVE BOX (MEDINA COUNTY)		12" X 8" TAPPING SLEEVE, VALVE AND VALVE BOX (MEDINA COUNTY)		12" X 12" TAPPING SLEEVE, VALVE AND VALVE BOX (MEDINA COUNTY)		6" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)			8" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (CITY OF MEDINA)		8" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)			12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (CITY OF MEDINA)		12" CUTTING IN SLEEVE, VALVE WITH VALVE BOX (MEDINA COUNTY)		CUT AND PLUG EXISTING 24" WATER LINE (CITY OF MEDINA)		WATER WORK, MISC.: FIRE VAULT (MEDINA COUNTY)						
	EACH		EACH		EACH				EACH		EACH		EACH		EACH		EACH		EACH			EACH		EACH			EACH		EACH		EACH		EACH		EACH		EACH				
	01/NHS/PV 02/NHS/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT	07/ENH/OT			
319	1		3	2	2		2											5	2			1																			
320		4				8																																			
321																																									
322													1	2																											
TOTALS CARRIED TO GENERAL SUMMARY	1	4	3	2	2	8	2	2	1	1	2		2	5	4	3	1					12	1																		

NO.	DESCRIPTION	REV. BY	DATE
1	REVISED QUANTITIES AND UPDATED PIPE MATERIAL	TMT	2-17-2020
5	REVISED WATER LINE QUANTITY	TMT	1-22-2021

WATER WORK SUBSUMMARY

MED - 18 - 12.99

CALCULATED
LRK
CHECKED
MDG

298
1085

REF. NO.	SHEET NO.	STATION		SIDE	SPECIAL			638		638		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		SPECIAL		CALCULATED LRK CHECKED MDG
		FROM	TO		FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH						
W-701	714	115+72.68 (S.R. 18)		RT																				
W-702	714	116+66.00 (S.R. 18)		RT																				
W-703	716	117+80.69 (S.R. 18)		RT																				
W-704	716	117+86.76 (S.R. 18)		LT																				
W-705	718	122+73.71 (S.R. 18)		RT																				
W-706	720	127+94.86 (S.R. 18)		RT																				
W-707	722	134+06.83 (S.R. 18)		LT																				
W-708	722	136+46.21 (S.R. 18)		LT																				
W-709	724	139+79.59 (S.R. 18)		LT																				
W-710	726	143+40.14 (S.R. 18)		LT																				
W-711	728	148+80.39 (S.R. 18)		LT																				
W-713	730	152+47.54 (S.R. 18)		LT																				
W-714	373	161+74.23 (S.R. 18)		RT																				
W-718	736	172+80.80 (S.R. 18)	172+81.04 (S.R. 18)	RT																				
W-719	736	174+80.44 (S.R. 18)		RT																				
W-720	736	174+91.94 (S.R. 18)		RT																				
W-721	740	183+69.58 (S.R. 18)		RT																				
W-722	387	191+40.01 (S.R. 18)		RT																				
W-723	714	115+70.20 (S.R. 18)	116+25.08 (S.R. 18)	RT																				
W-725	718	122+73.71 (S.R. 18)	123+24.56 (S.R. 18)	LT/RT				168																
W-727	718 - 720	126+56.39 (S.R. 18)	129+50.00 (S.R. 18)	RT																				
W-728	722 - 724	133+26.62 (S.R. 18)	139+92.09 (S.R. 18)	LT																				
W-729	722	134+07.24 (S.R. 18)	134+08.28 (S.R. 18)	LT																				
W-730	722	136+46.21 (S.R. 18)	136+46.21 (S.R. 18)	LT																				
W-731	726 - 730	142+79.88 (S.R. 18)	152+84.59 (S.R. 18)	LT																				
W-732	728	148+80.39 (S.R. 18)	148+86.16 (S.R. 18)	LT																				
W-734	736 - 738	172+25.00 (S.R. 18)	180+57.34 (S.R. 18)	RT																				
W-736	736	174+67.32 (S.R. 18)	174+94.39 (S.R. 18)	RT																				
W-737	728	147+11.45 (S.R. 18)	147+11.51 (S.R. 18)	LT																				
W-738	728	149+17.94 (S.R. 18)	149+17.94 (S.R. 18)	LT																				
W-739	716	117+48.91 (S.R. 18)		LT																				
W-741	740	183+58.08 (S.R. 18)	183+58.08 (S.R. 18)	RT																				
W-742	740	183+58.08 (S.R. 18)		RT																				
W-743	740	183+45.41 (S.R. 18)	183+54.58 (S.R. 18)	RT																				
W-744	740	183+43.24 (S.R. 18)	183+59.58 (S.R. 18)	RT																				
W-745	730	152+66.29 (S.R. 18)	152+66.96 (S.R. 18)	LT																				
W-746	714-716, 750	19+91.39 (FOOTE)	117+80.69 (S.R. 18)	LT/RT																				
W-750	728	150+68.98 (S.R. 18)	150+68.98 (S.R. 18)	LT																				
W-751	400	903+64.33 (RIVER STYX)	904+07.85 (RIVER STYX)	RT																				
W-752	750	19+73.61 (FOOTE)		RT																				
W-799	716	117+46.41 (S.R. 18)	117+51.41 (S.R. 18)	LT																				
TOTALS CARRIED TO SUBSUMMARY ON SHEET 298																								

WATER WORK ESTIMATED QUANTITIES

MED - 18 - 12.99

321
1085

NO.	DESCRIPTION	REV. BY	DATE
1	UPDATED W-704 & W-713 STATIONS, REVISED W-751 QUANTITY, UPDATED PIPE MATERIAL	TMT	12-17-2020
5	REVISED W-706 STATION, AND W-727 STATION AND QUANTITY	TMT	1-22-2021

REF. NO.	SHEET NO.	STATION		SIDE	202			202			202				202		202			
					PIPE REMOVED, 24" AND UNDER			MANHOLE REMOVED (WATER)			VALVE BOX REMOVED				REMOVAL MISC.: BOOSTER STATION REMOVED (MEDINA COUNTY)		REMOVAL MISC.: FIRE VAULT REMOVED			
		FROM	TO		FT	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	06/ENH/OT	EACH	01/NHS/PV 02/NHS/PV	07/ENH/OT	06/ENH/OT	EACH	01/NHS/PV 02/NHS/PV	03/ENH/PV 04/ENH/PV	07/ENH/OT	06/ENH/OT	EACH	06/ENH/OT	EACH
WR-711	734	171+05.00 (S.R. 18)		RT													1			
WR-712	734	171+65.81 (S.R. 18)		RT						1										
WR-713	734	171+77.85 (S.R. 18)		RT											1					
WR-714	734	171+83.00 (S.R. 18)		RT											1					
WR-715	736	172+81.13 (S.R. 18)		RT											1					
WR-716	736	174+94.52 (S.R. 18)		RT											1					
WR-717	740	183+46.12 (S.R. 18)		RT														1		
WR-718	722	133+96.81 (S.R. 18)		LT											1					
WR-720	738	181+77.41 (S.R. 18)		RT														1		
WR-721	740	183+48.03 (S.R. 18)		RT											1					
WR-725	714	115+70.03 (S.R. 18)	115+70.20 (S.R. 18)	RT						5										
WR-726	714	116+20.09 (S.R. 18)	116+25.08 (S.R. 18)	RT						5										
WR-727	716	117+51.41 (S.R. 18)	117+51.41 (S.R. 18)	LT						14										
WR-728	718	122+73.71 (S.R. 18)	122+73.72 (S.R. 18)	LT						15										
WR-729	718	126+56.39 (S.R. 18)	126+61.37 (S.R. 18)	RT						5										
WR-730	720	129+45.00 (S.R. 18)	129+50.00 (S.R. 18)	RT						5										
WR-731	722	133+26.62 (S.R. 18)	133+31.68 (S.R. 18)	LT						5										
WR-732	722	136+46.02 (S.R. 18)	136+46.21 (S.R. 18)	LT						5										
WR-733	724	139+88.99 (S.R. 18)	139+92.09 (S.R. 18)	LT						5										
WR-734	726	142+79.88 (S.R. 18)	142+84.88 (S.R. 18)	LT						5										
WR-735	728	148+85.86 (S.R. 18)	148+86.16 (S.R. 18)	LT						5										
WR-736	730	152+79.56 (S.R. 18)	152+84.59 (S.R. 18)	LT						5										
WR-737	736	174+94.39 (S.R. 18)	174+94.59 (S.R. 18)	RT						12										
WR-738	738	180+52.34 (S.R. 18)	180+57.34 (S.R. 18)	RT						5										
WR-740	750	19+84.39 (FOOTE)	19+91.39 (FOOTE)	RT						7										
WR-741	732	166+80.84 (S.R. 18)	166+90.84 (S.R. 18)	RT						10										
WR-742	748	921+26.18 (RIVER STYX)	921+43.24 (RIVER STYX)	RT						23										
WR-743	736	172+25.00 (S.R. 18)	172+37.73 (S.R. 18)	RT						16										
WR-744	400	903+64.33 (RIVER STYX)	904+07.85 (RIVER STYX)	RT			44													
WR-745	734	171+80.20 (S.R. 18)		RT											1					
SUBTOTALS THIS SHEET						44	152				1				7		1		2	
SUBTOTALS SHEET 325					44	11			3	7			3	7	4	10				
TOTALS CARRIED TO GENERAL SUMMARY					44	55	152		3	7	1		3	7	4	17		1		2

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED WR-730 STATIONS	TMT	1-22-2021

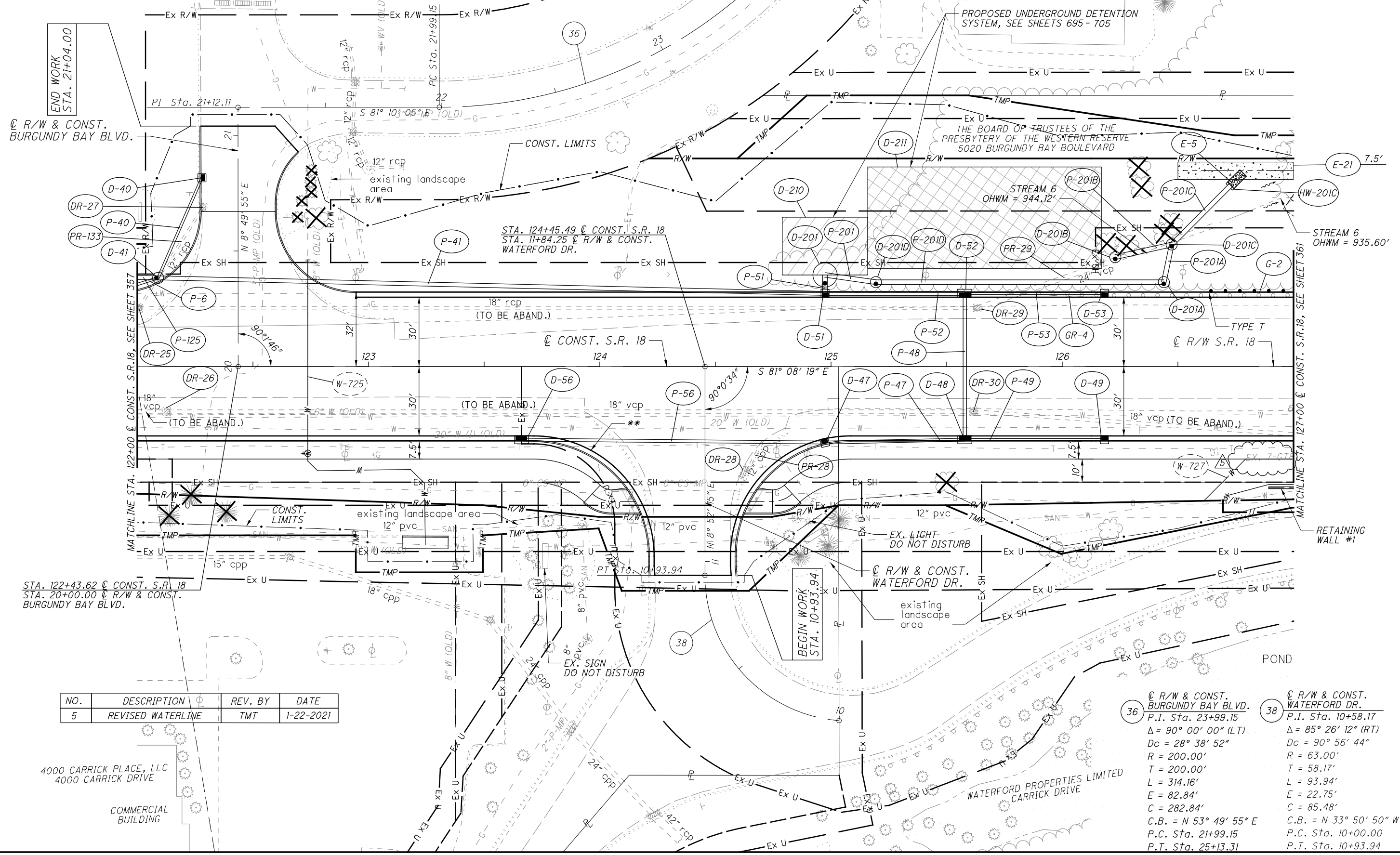
CALCULATED LRK CHECKED MDG
WATER WORK ESTIMATED QUANTITIES
MED - 18 - 12.99
 326
 1085

THE BOARD OF TRUSTEES OF THE
PRESBYTERY OF THE WESTERN RESERVE
5020 BURGUNDY BAY BOULEVARD

FOR ϕ OF R/W DETAILS, SEE SHEETS 9-14
FOR S.R. 18 PROFILE, SEE SHEET 360
FOR SIDE ROAD PROFILES, SEE SHEETS 410-411
FOR INTERSECTION AND SIDE ROAD
DIMENSION DETAILS, SEE SHEETS 545-565
FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336
FOR UNDERDRAIN DETAILS, SEE SHEETS 660-674
FOR RETAINING WALL PLANS & ELEVATIONS, SEE SHEETS 967-975
FOR PIPE PROFILES, SEE SHEETS 441-443
FOR WATER WORK PLANS, SEE SHEETS 706-751

- ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT
- ITEM 611 - DRAINAGE STRUCTURE MISC.: UNDERGROUND DETENTION STORAGE
- ITEM 895 - MANUFACTURED WATER QUALITY STRUCTURE, TYPE 4

** CURB, TYPE 2, AS-PER PLAN, SEE GENERAL NOTES



CALCULATED
ATR
CHECKED
MDG

0 10 20 40
HORIZONTAL
SCALE IN FEET

PLAN - S.R. 18
STA. 122+00 TO STA. 127+00

MED - 18 - 12.99

359
1085

END WORK
STA. 21+04.00

ϕ R/W & CONST.
BURGUNDY BAY BLVD.

MATCHLINE STA. 122+00 ϕ CONST. S.R. 18, SEE SHEET 357

STA. 122+43.62 ϕ CONST. S.R. 18
STA. 20+00.00 ϕ R/W & CONST.
BURGUNDY BAY BLVD.

BEGIN WORK
STA. 10+93.94

MATCHLINE STA. 127+00 ϕ CONST. S.R. 18, SEE SHEET 361

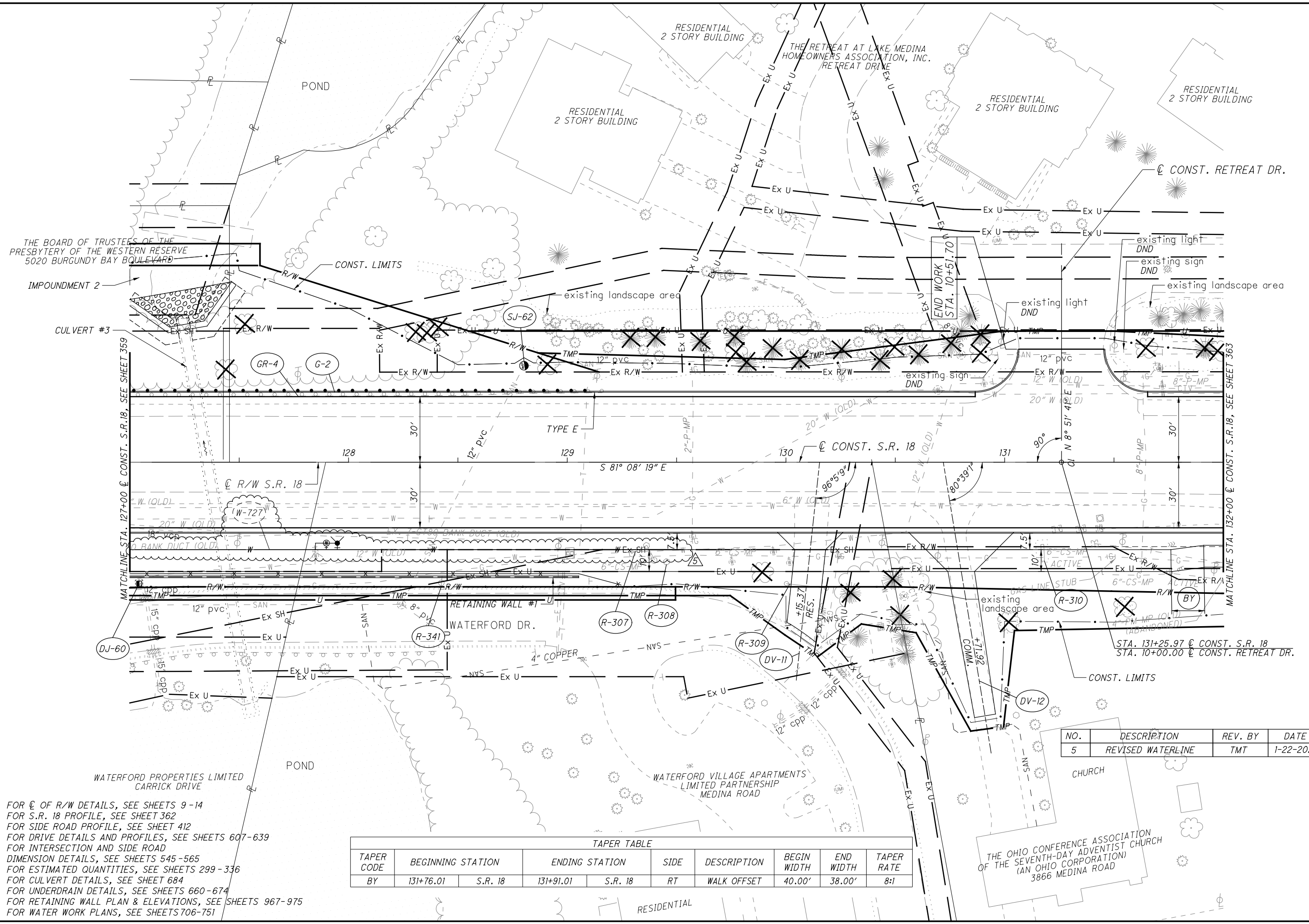
NO.	DESCRIPTION	REV. BY	DATE
5	REVISED WATERLINE	TMT	1-22-2021

4000 CARRICK PLACE, LLC
4000 CARRICK DRIVE
COMMERCIAL BUILDING

WATERFORD PROPERTIES LIMITED
CARRICK DRIVE

36 ϕ R/W & CONST.
BURGUNDY BAY BLVD.
P.I. Sta. 23+99.15
 $\Delta = 90^\circ 00' 00''$ (LT)
Dc = 28' 38' 52"
R = 200.00'
T = 200.00'
L = 314.16'
E = 82.84'
C = 282.84'
C.B. = N 53° 49' 55" E
P.C. Sta. 21+99.15
P.T. Sta. 25+13.31

38 ϕ R/W & CONST.
WATERFORD DR.
P.I. Sta. 10+58.17
 $\Delta = 85^\circ 26' 12''$ (RT)
Dc = 90' 56' 44"
R = 63.00'
T = 58.17'
L = 93.94'
E = 22.75'
C = 85.48'
C.B. = N 33° 50' 50" W
P.C. Sta. 10+00.00
P.T. Sta. 10+93.94



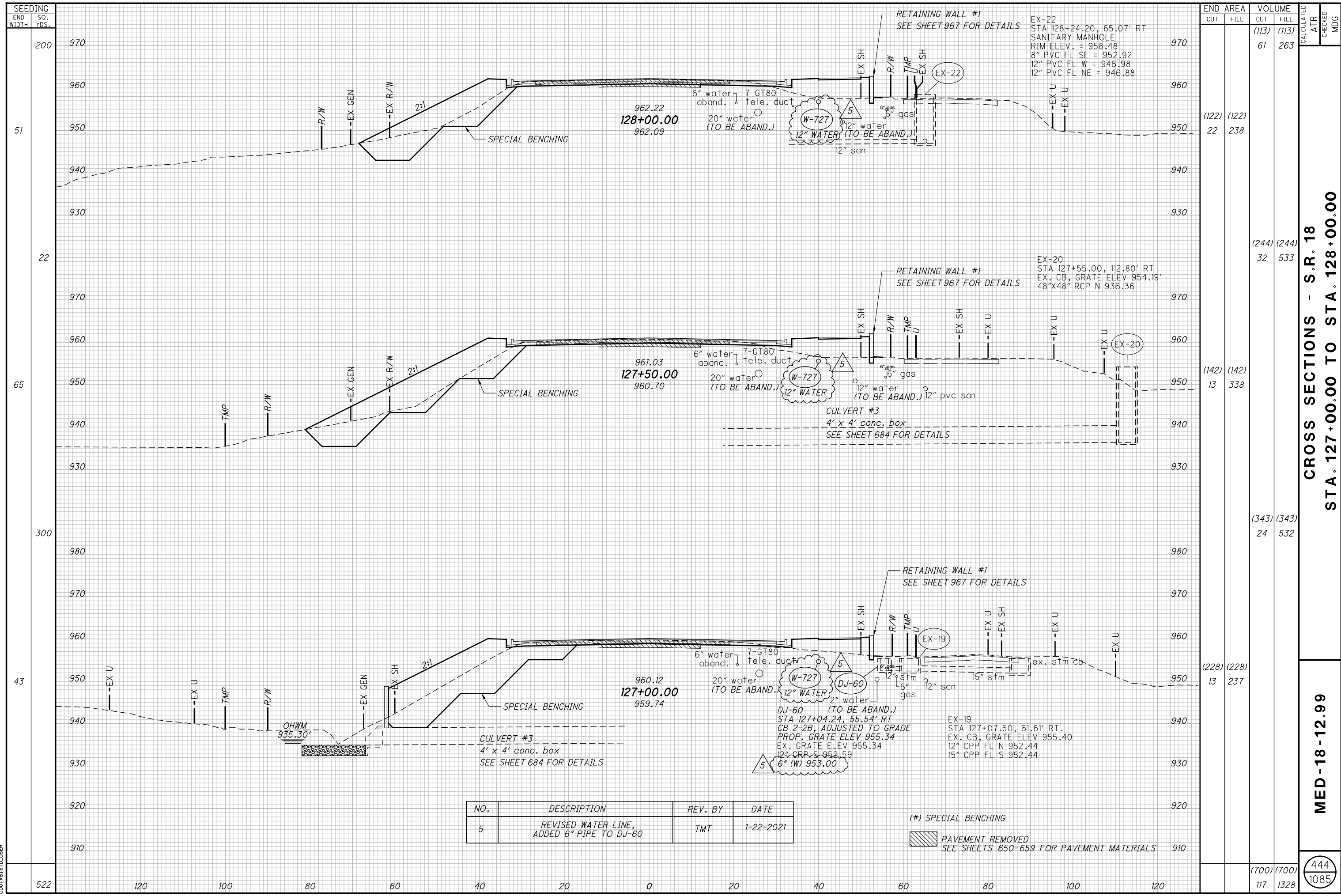
FOR ϕ OF R/W DETAILS, SEE SHEETS 9-14
 FOR S.R. 18 PROFILE, SEE SHEET 362
 FOR SIDE ROAD PROFILE, SEE SHEET 412
 FOR DRIVE DETAILS AND PROFILES, SEE SHEETS 607-639
 FOR INTERSECTION AND SIDE ROAD
 DIMENSION DETAILS, SEE SHEETS 545-565
 FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336
 FOR CULVERT DETAILS, SEE SHEET 684
 FOR UNDERDRAIN DETAILS, SEE SHEETS 660-674
 FOR RETAINING WALL PLAN & ELEVATIONS, SEE SHEETS 967-975
 FOR WATER WORK PLANS, SEE SHEETS 706-751

TAPER TABLE

TAPER CODE	BEGINNING STATION	ENDING STATION	SIDE	DESCRIPTION	BEGIN WIDTH	END WIDTH	TAPER RATE
BY	131+76.01	S.R. 18	131+91.01	S.R. 18	RT	WALK OFFSET	40.00' 38.00' 8:1

01:2013:2013013:VED:92955:ROADWAY SHEETS:92955:010.DGN
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SEEDING END WIDTH SO. YDS.	END AREA CUT	END AREA FILL	VOLUME		CALCULATED ATR	CHECKED MDG
			CUT	FILL		
200			(113)	(113)		
51			61	263		
22			(122)	(122)		
65			22	238		
300			(244)	(244)		
43			32	533		
522			(142)	(142)		
			13	338		
			(343)	(343)		
			24	532		
			(228)	(228)		
			13	237		
			(700)	(700)		
			117	1328		

CROSS SECTIONS - S.R. 18
STA. 127+00.00 TO STA. 128+00.00

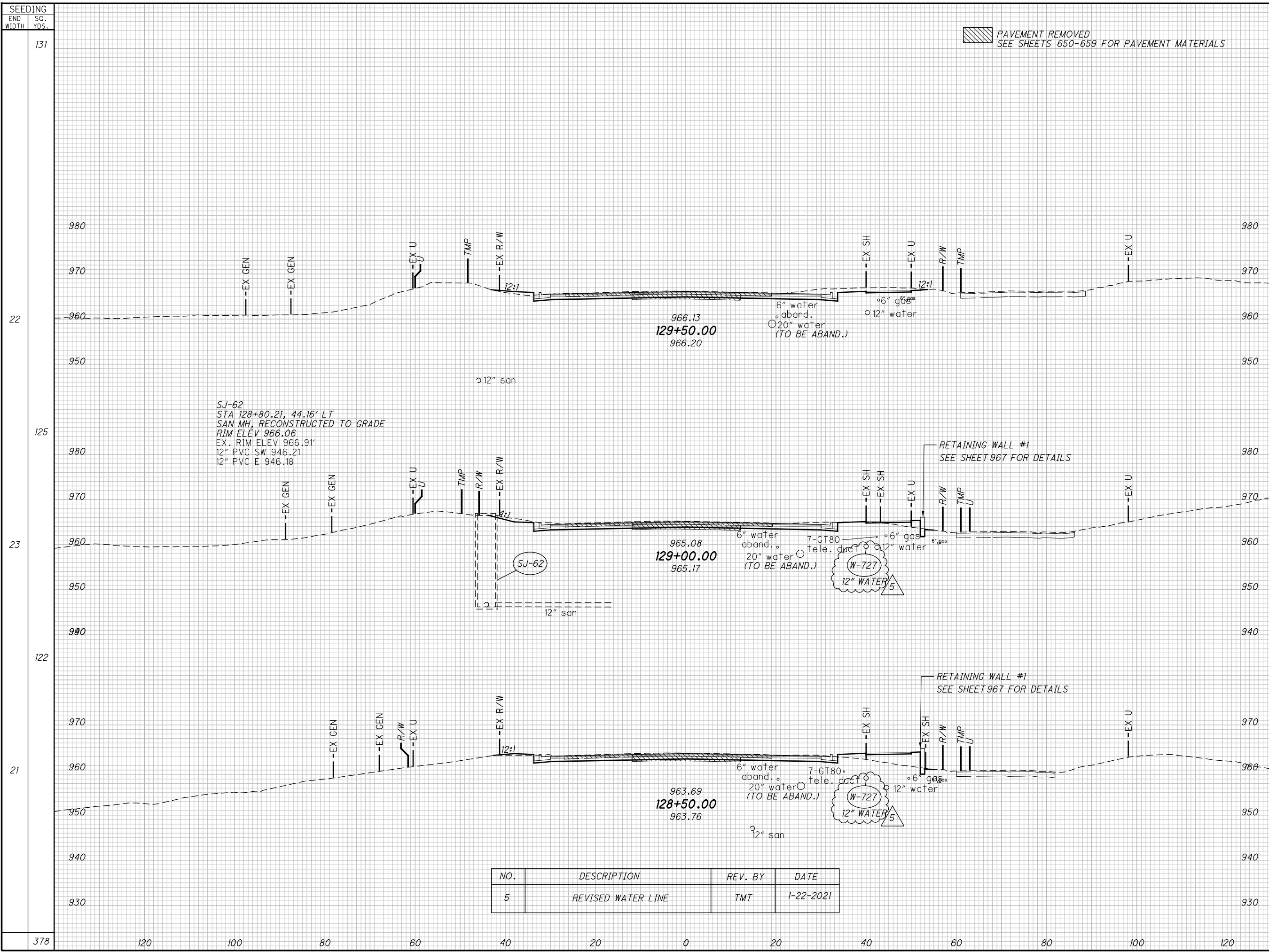
MED - 18 - 12.99

444
 1085

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED WATER LINE, ADDED 6" PIPE TO DJ-60	TMT	1-22-2021

(#) SPECIAL BENCHING
 PAVEMENT REMOVED
 SEE SHEETS 650-659 FOR PAVEMENT MATERIALS

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PAVEMENT REMOVED
 SEE SHEETS 650-659 FOR PAVEMENT MATERIALS

SJ-62
 STA 128+80.21, 44.16' LT
 SAN MH, RECONSTRUCTED TO GRADE
 RIM ELEV 966.06
 EX. RIM ELEV 966.91'
 12" PVC SW 946.21
 12" PVC E 946.18

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED WATER LINE	TMT	1-22-2021

END STA	AREA		VOLUME		CALCULATED ATR	CHECKED MDG
	CUT	FILL	CUT	FILL		
131			137	28		
22	66	17				
125			111	33		
23	54	19				
122			91	60		
21	44	46				
378			339	121		

CROSS SECTIONS - S.R. 18
STA. 128+50.00 TO STA. 129+50.00

MED - 18 - 12.99

445
 1085

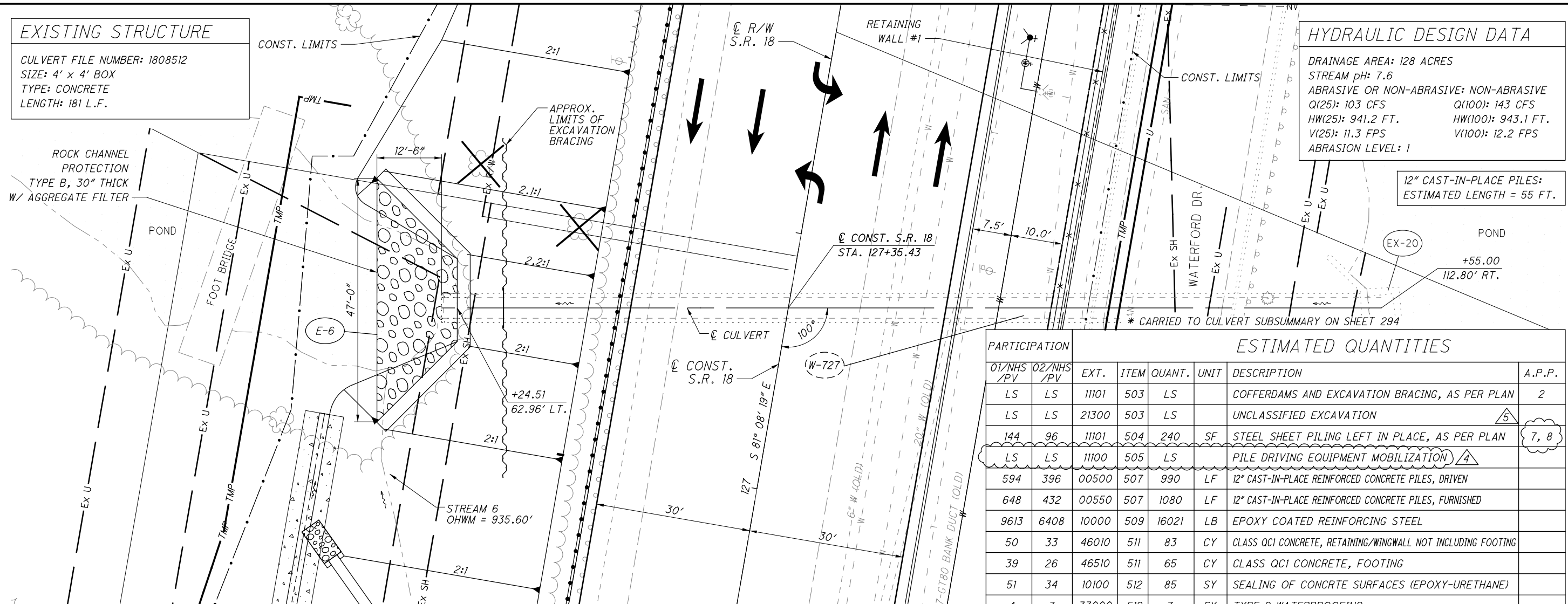
EXISTING STRUCTURE

CULVERT FILE NUMBER: 1808512
 SIZE: 4' x 4' BOX
 TYPE: CONCRETE
 LENGTH: 181 L.F.

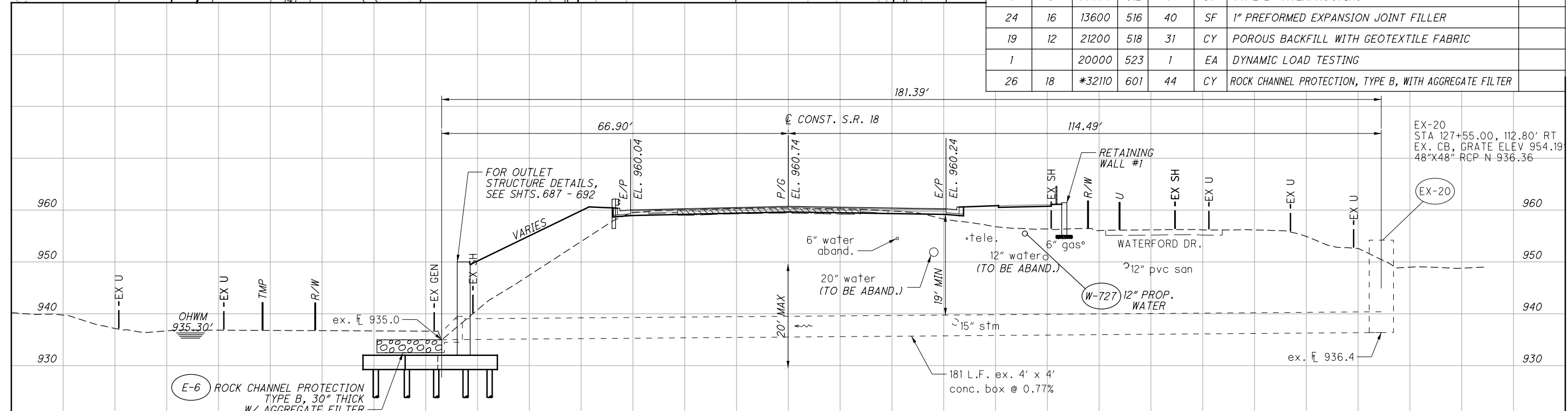
HYDRAULIC DESIGN DATA

DRAINAGE AREA: 128 ACRES
 STREAM pH: 7.6
 ABRASIVE OR NON-ABRASIVE: NON-ABRASIVE
 Q(25): 103 CFS Q(100): 143 CFS
 HW(25): 941.2 FT. HW(100): 943.1 FT.
 V(25): 11.3 FPS V(100): 12.2 FPS
 ABRASION LEVEL: 1

12" CAST-IN-PLACE PILES:
 ESTIMATED LENGTH = 55 FT.



PARTICIPATION		ESTIMATED QUANTITIES						
01/NHS /PV	02/NHS /PV	EXT.	ITEM	QUANT.	UNIT	DESCRIPTION	A.P.P.	
LS	LS	11101	503	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	2	
LS	LS	21300	503	LS		UNCLASSIFIED EXCAVATION	5	
144	96	11101	504	240	SF	STEEL SHEET PILING LEFT IN PLACE, AS PER PLAN	7, 8	
LS	LS	11100	505	LS		PILE DRIVING EQUIPMENT MOBILIZATION	4	
594	396	00500	507	990	LF	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN		
648	432	00550	507	1080	LF	12" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED		
9613	6408	10000	509	16021	LB	EPOXY COATED REINFORCING STEEL		
50	33	46010	511	83	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING		
39	26	46510	511	65	CY	CLASS QC1 CONCRETE, FOOTING		
51	34	10100	512	85	SY	SEALING OF CONCRTE SURFACES (EPOXY-URETHANE)		
4	3	33000	512	7	SY	TYPE 2 WATERPROOFING		
24	16	13600	516	40	SF	1" PREFORMED EXPANSION JOINT FILLER		
19	12	21200	518	31	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
1		20000	523	1	EA	DYNAMIC LOAD TESTING		
26	18	*32110	601	44	CY	ROCK CHANNEL PROTECTION, TYPE B, WITH AGGREGATE FILTER		

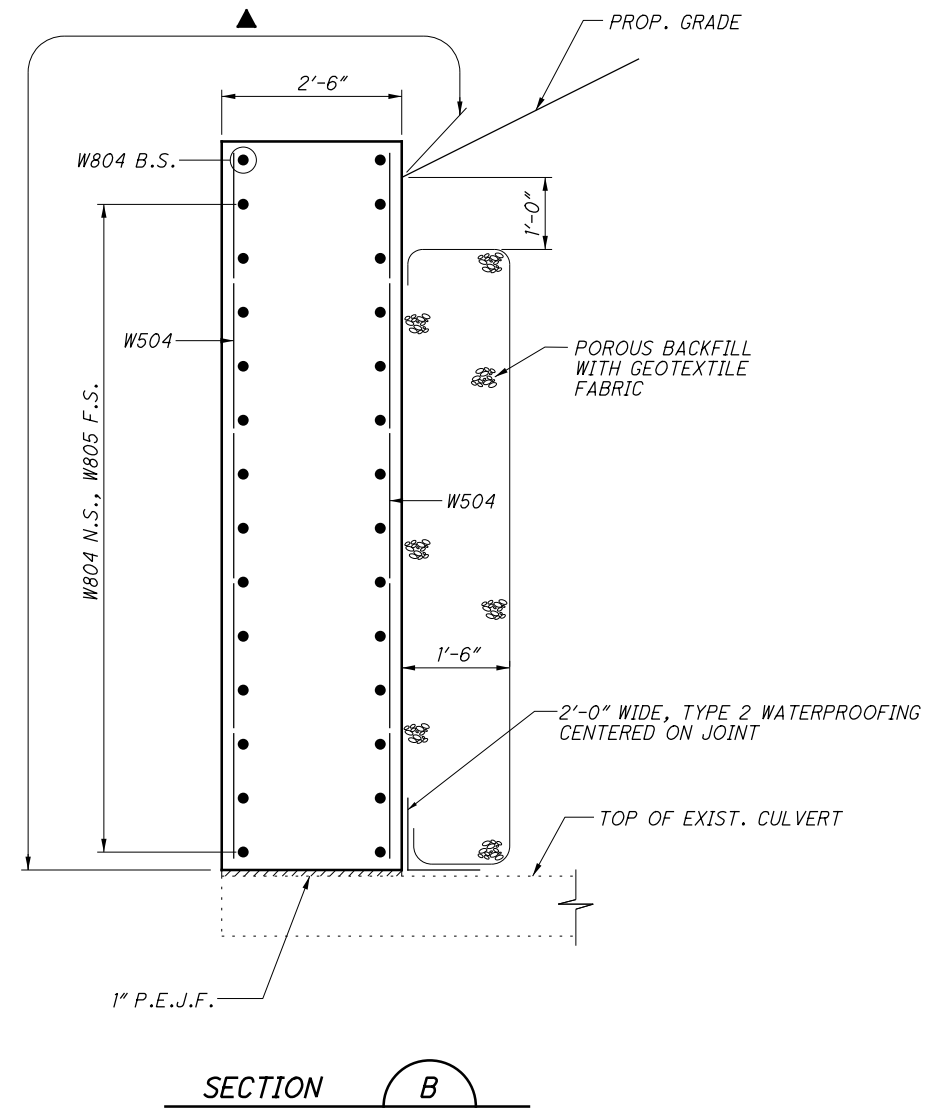
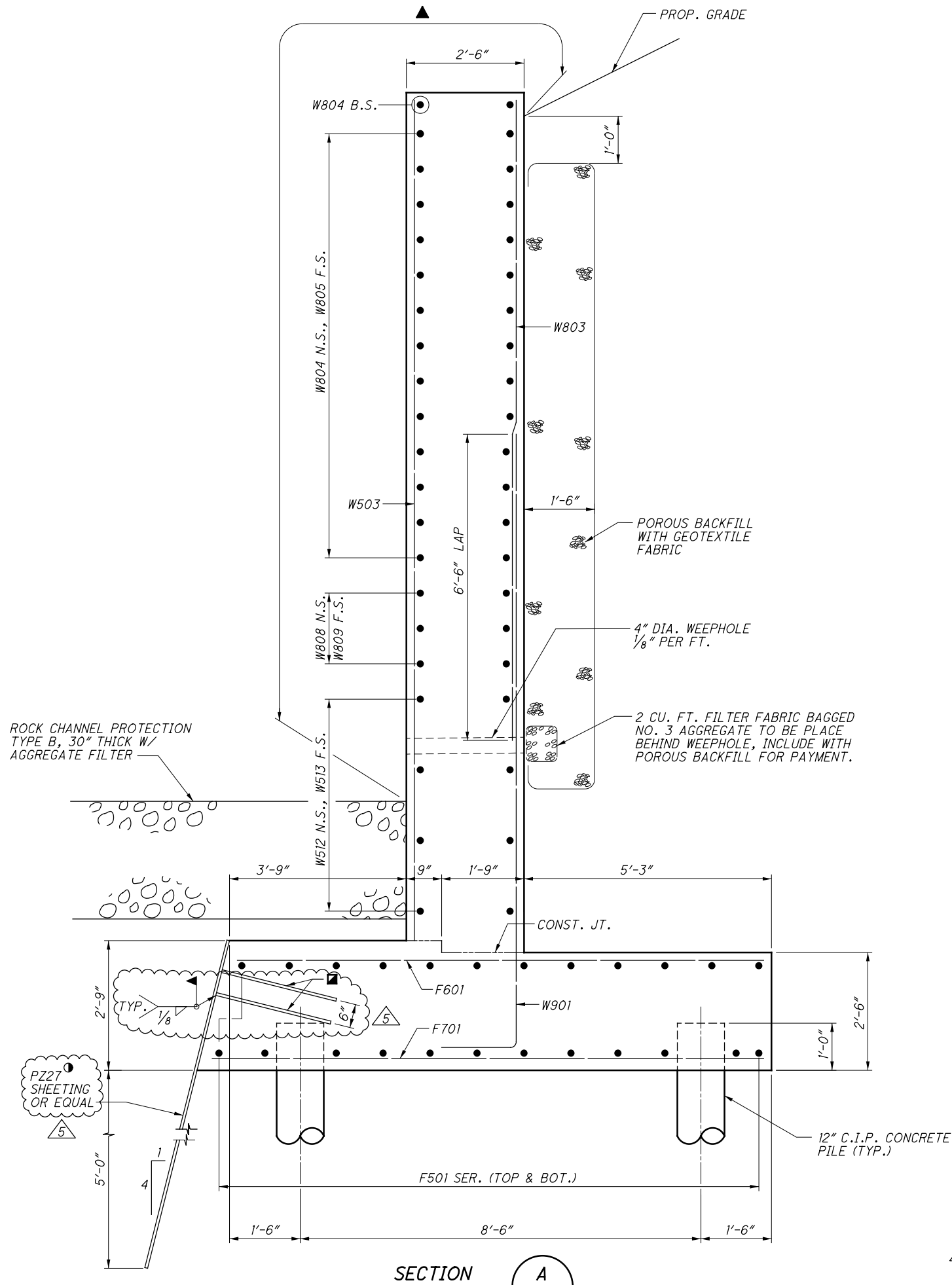


NO.	DESCRIPTION	REV. BY	DATE
4	ITEM ADDED	DJC	1/13/21
5	SHEET NUMBERS REVISED	DJC	1/22/21

01:201312013013 MED 19295\DRAWING\SHEETS\1929530003.DGN
 1/22/2021
 3:20:35 PM
 000TY81STD_USER

CALCULATED ATR CHECKED MDG
 HORIZONTAL SCALE IN FEET
 0 5 10 20
 NORTH
CULVERT DETAIL - S.R. 18
CULVERT #3 - STA. 127+35.43
MED-18-12.99
 1/9
 684
 1085

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LEGEND:

- ▲ INDICATES LIMITS OF "ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY URETHANE)"
- STEEL SHEET PILING LEFT IN PLACE SHALL BE HOT-DIPPED GALVANIZED
- #6 BARS - 2'-6" LONG - WELDED TO THE SHEETING - SPACED AT 1'-0" MAXIMUM ALONG THE FACE OF THE FOOTING

NO.	DESCRIPTION	REV. BY	DATE
5	ADDITIONAL INFO PROVIDED	DJC	1/22/21

STRUCTURE SECTIONS

CULVERT #3
STA. 127+35.43

MED - 18 - 12.99
PID No. 92953

7 / 9

690
1085

DESIGN AGENCY: **GPD GROUP**
 920 South Main Street, Suite 2501, Akron, Ohio 44311, 330.672.1000
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LEGEND:

▲ INDICATES LIMITS OF "ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY URETHANE)"

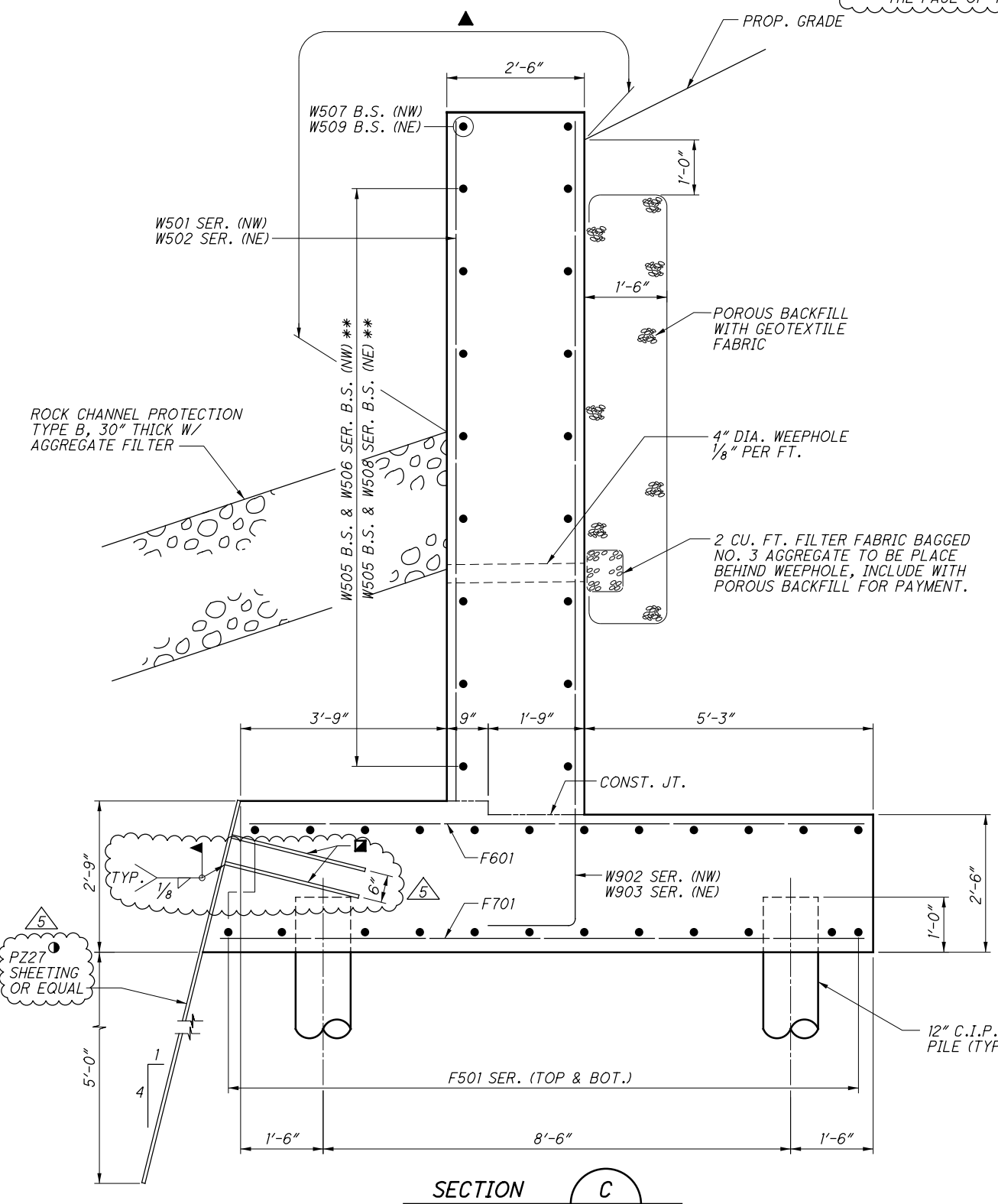
(NW) NORTHWEST WINGWALL

(NE) NORTHEAST WINGWALL

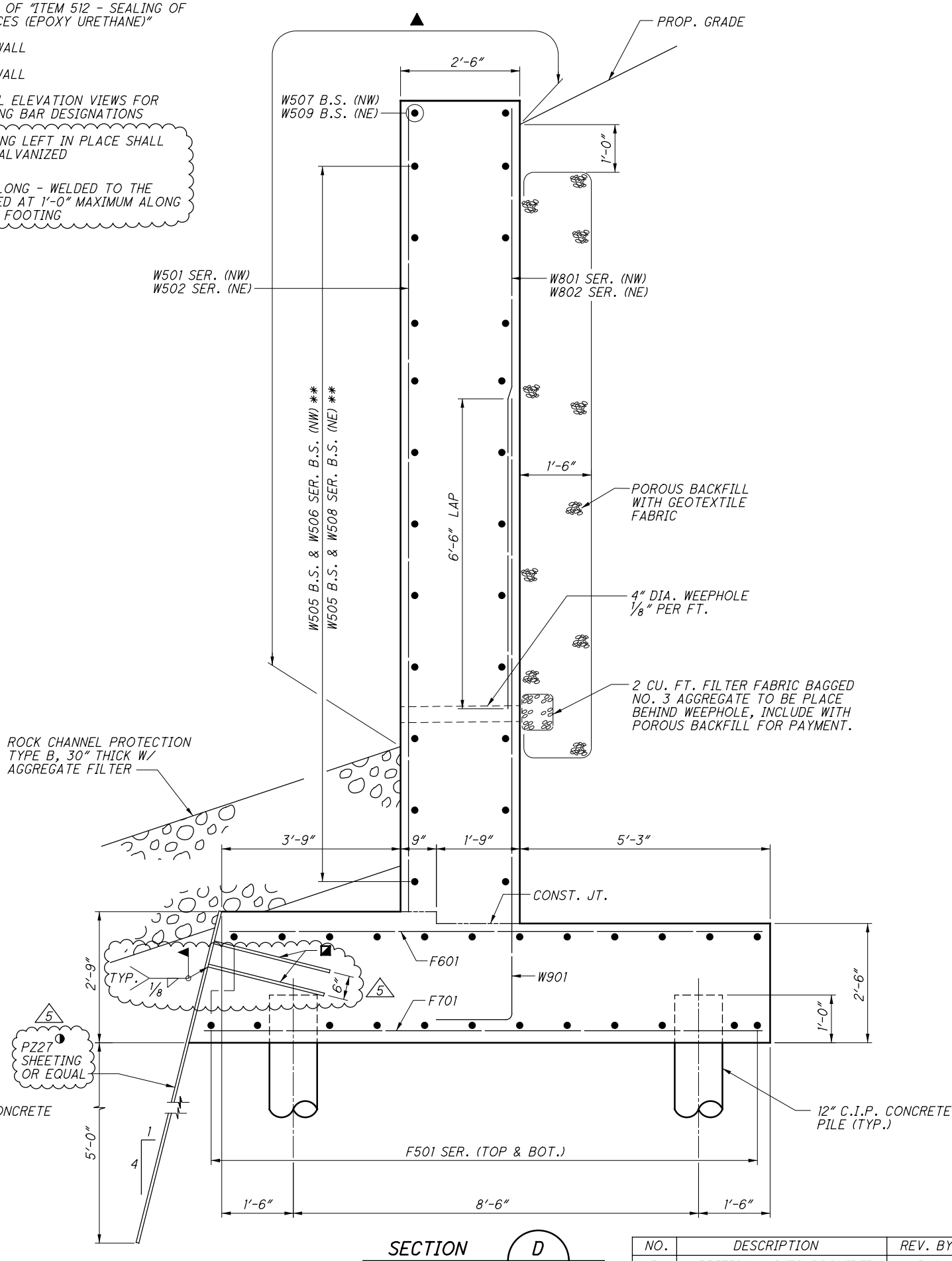
** SEE THE WINGWALL ELEVATION VIEWS FOR EXACT REINFORCING BAR DESIGNATIONS

① STEEL SHEET PILING LEFT IN PLACE SHALL BE HOT-DIPPED GALVANIZED

② #6 BARS - 2'-6" LONG - WELDED TO THE SHEETING - SPACED AT 1'-0" MAXIMUM ALONG THE FACE OF THE FOOTING



SECTION C



SECTION D

NO.	DESCRIPTION	REV. BY	DATE
5	ADDITIONAL INFO PROVIDED	DJC	1/22/21

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DESIGN AGENCY
GPD GROUP
 Glenn P. Schoner, Burns & Dolan, Inc.
 920 South Main Street, Suite 2501, Akron, Ohio 44311 330.572.2100
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STRUCTURE SECTIONS
 CULVERT #3
 STA. 127+35.43

MED - 18 - 12.99
PID No. 92953

8 / 9

691
 1085

DESIGNED	REV	CHECKED	DUC
DUC			

DRAWN	REVISED
RPR	

REVIEWED	DATE
DJC	9-21-20

FILE NUMBER
STRUCTURE

THE BOARD OF TRUSTEES OF THE
PRESBYTERY OF THE WESTERN RESERVE
5020 BURGUNDY BAY BOULEVARD

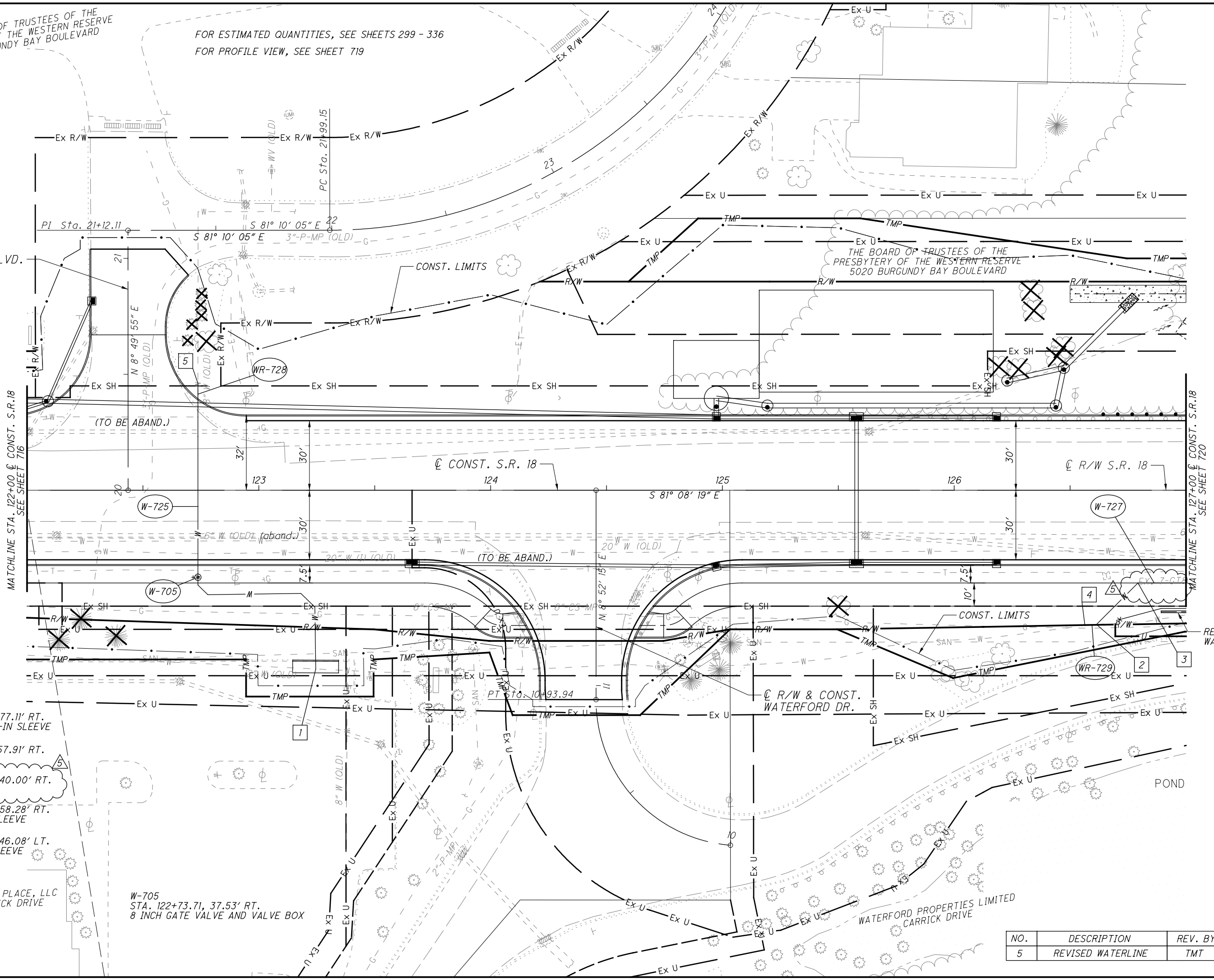
FOR ESTIMATED QUANTITIES, SEE SHEETS 299 - 336
FOR PROFILE VIEW, SEE SHEET 719



0 10 20 40
HORIZONTAL
SCALE IN FEET
CALCULATED
ATR
CHECKED
MDG

CL R/W & CONST.
BURGUNDY BAY BLVD.

THE BOARD OF TRUSTEES OF THE
PRESBYTERY OF THE WESTERN RESERVE
5020 BURGUNDY BAY BOULEVARD



MATCHLINE STA. 122+00 CL CONST. S.R. 18
SEE SHEET 716

MATCHLINE STA. 127+00 CL CONST. S.R. 18
SEE SHEET 720

- 1 STA. 123+24.56, 77.11' RT.
12" X 8" TAPPING-IN SLEEVE
- 2 STA. 126+61.37, 57.91' RT.
12" - 45° BEND
- 3 STA. 126+79.28, 40.00' RT.
12" - 45° BEND
- 4 STA. 126+56.39, 58.28' RT.
12" CUTTING-IN SLEEVE
- 5 STA. 122+73.72, 46.08' LT.
8" CUTTING-IN SLEEVE

4000 CARRICK PLACE, LLC
4000 CARRICK DRIVE

W-705
STA. 122+73.71, 37.53' RT.
8 INCH GATE VALVE AND VALVE BOX

CL R/W & CONST.
WATERFORD DR.

WATERFORD PROPERTIES LIMITED
CARRICK DRIVE

NO.	DESCRIPTION	REV. BY	DATE
5	REVISED WATERLINE	TMT	1-22-2021

WATER WORK - PLAN - S.R. 18
STA. 122+00 TO STA. 127+00

MED-18-12.99

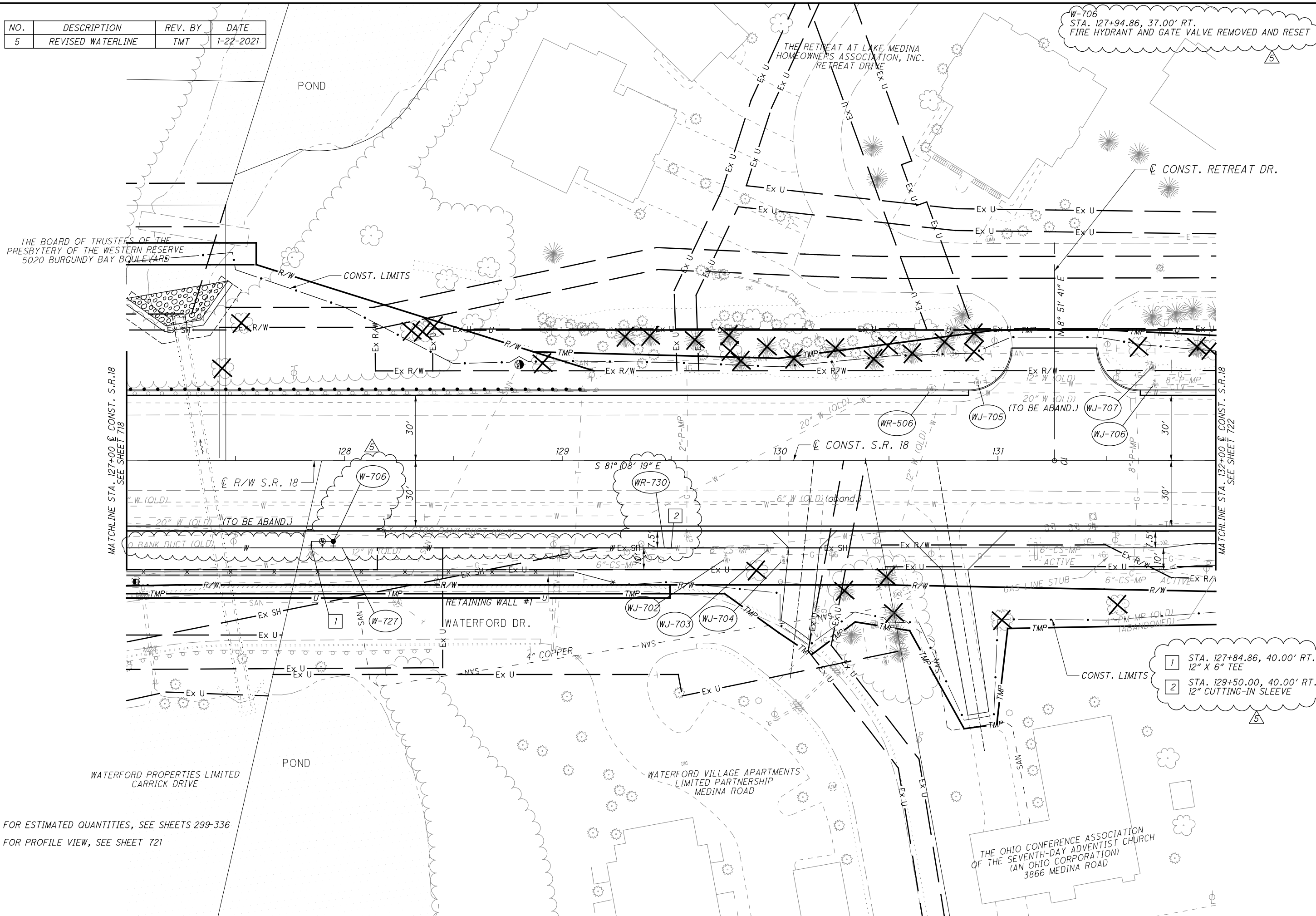
718
1085

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NO.	DESCRIPTION	REV. BY	DATE
5	REVISED WATERLINE	TMT	1-22-2021



 0 20 40
 HORIZONTAL
 SCALE IN FEET
 CALCULATED
 ATR
 CHECKED
 MDG



W-706
 STA. 127+94.86, 37.00' RT.
 FIRE HYDRANT AND GATE VALVE REMOVED AND RESET

- 1 STA. 127+84.86, 40.00' RT.
12" X 6" TEE
- 2 STA. 129+50.00, 40.00' RT.
12" CUTTING-IN SLEEVE

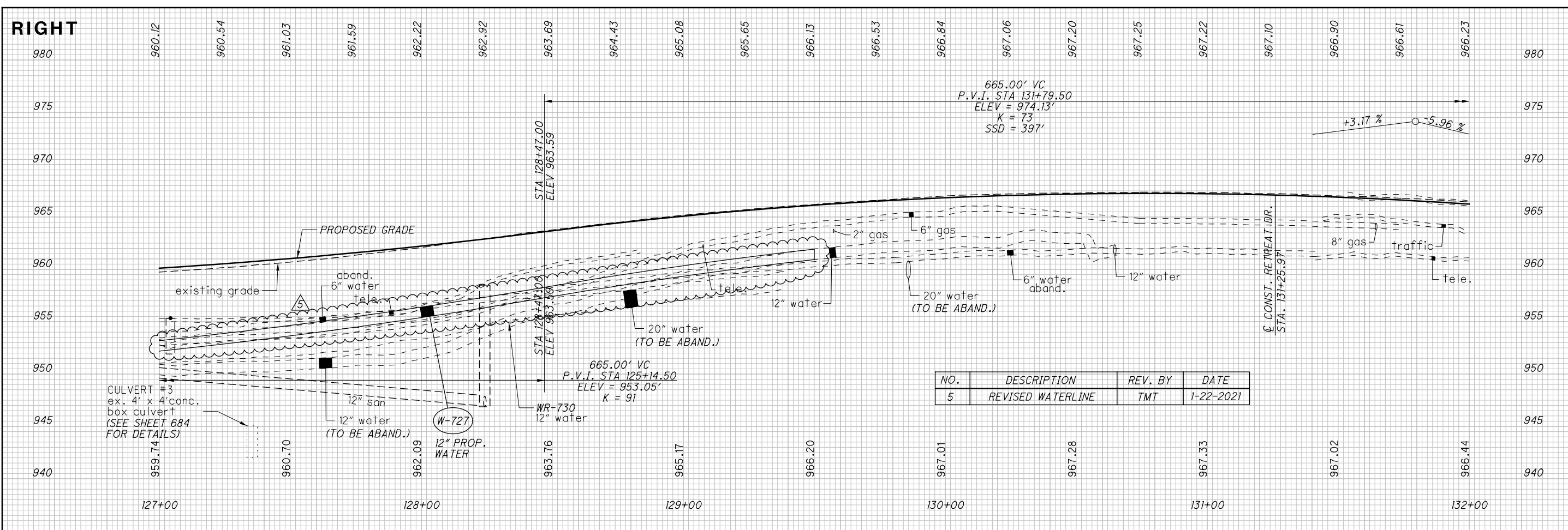
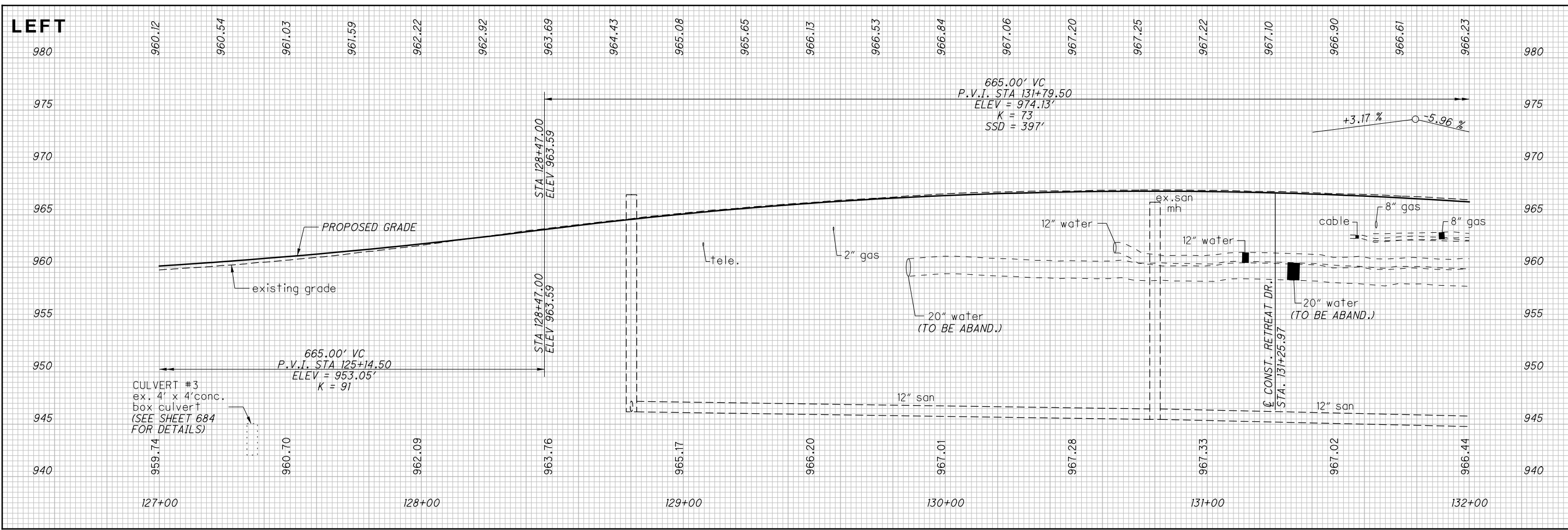
WATER WORK - PLAN - S.R. 18
STA. 127+00 TO STA. 132+00

MED-18-12.99

720
1085

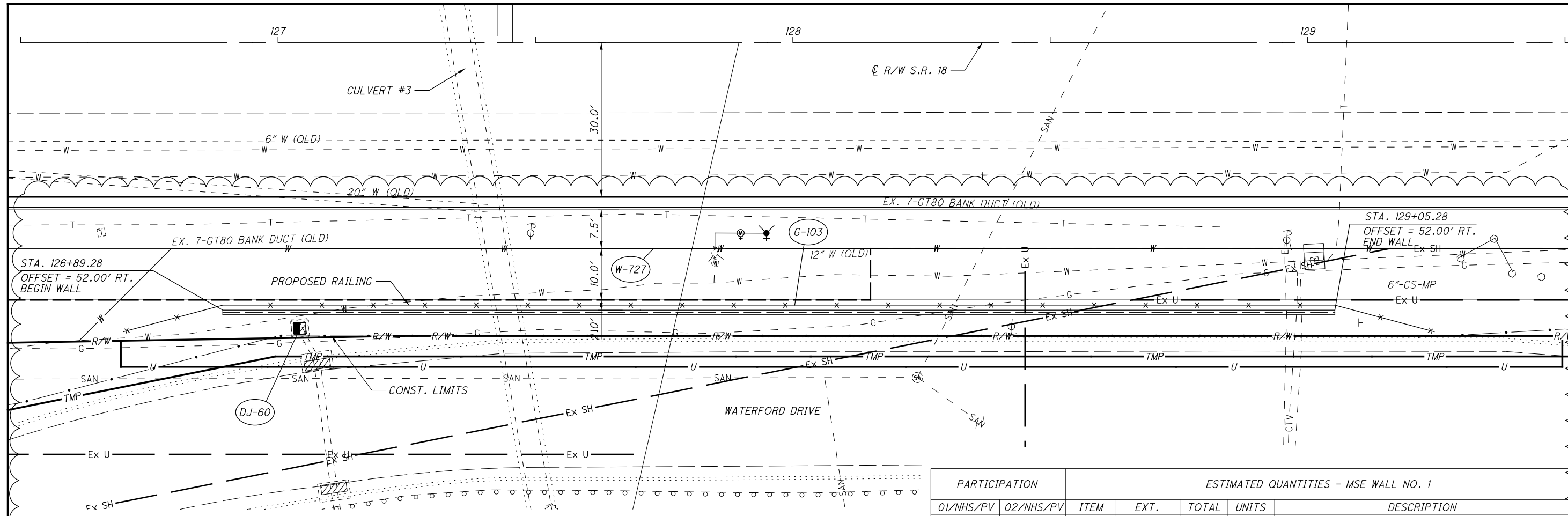
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FOR ESTIMATED QUANTITIES, SEE SHEETS 299-336
 FOR PROFILE VIEW, SEE SHEET 721



NO.	DESCRIPTION	REV. BY	DATE
5	REVISED WATERLINE	TMT	1-22-2021

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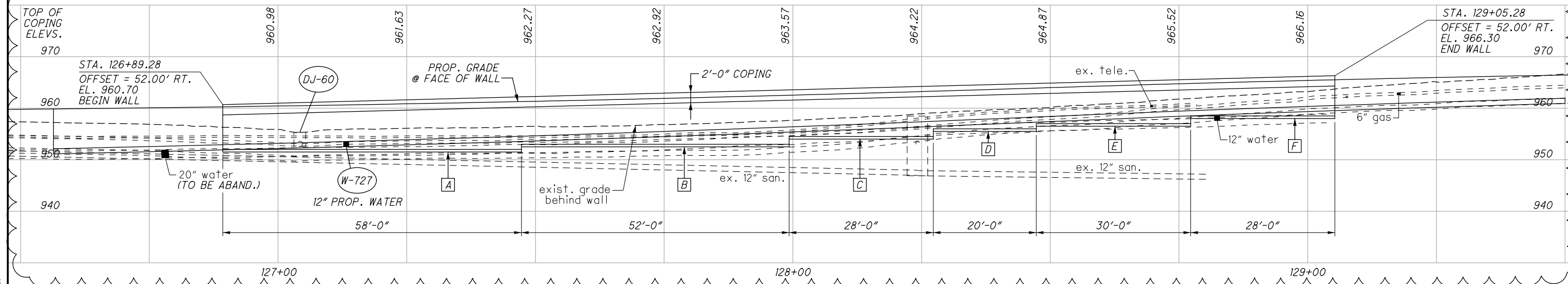
TOP OF LEVELING PAD DATA	
LOCATION	ELEVATION
A	952.00
B	953.00
C	954.50
D	956.00
E	957.00
F	958.50

DJ-60
 STA 127+04.24, 55.54' RT
 CB 2-2B, ADJUSTED TO GRADE
 PROP. GRATE ELEV 955.34
 EX. GRATE ELEV 955.34
 12" CPP S 952.59
 6" (W) 953.00

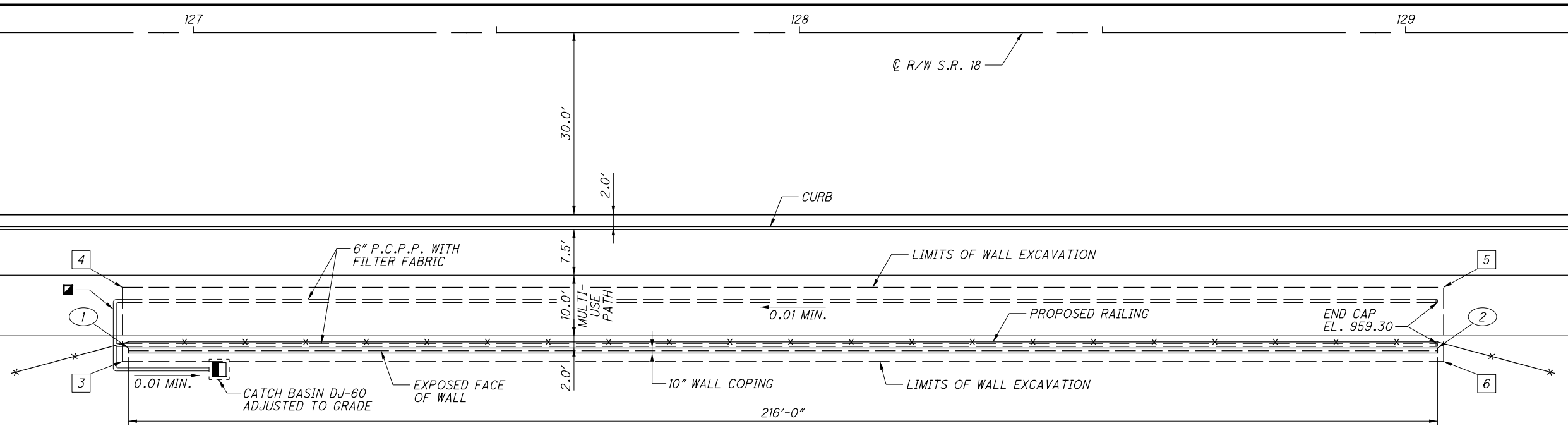
NOTES:

- ALL WALL STATIONS AND OFFSETS ARE MEASURED FROM THE SHARED-USE PATH SIDE OF THE WALL AND GIVEN TO THE ϕ R/W S.R. 18.
- ALL DIMENSIONS ARE GIVEN ALONG THE SHARED-USE PATH SIDE OF THE WALL.
- FOR WALL GENERAL NOTES, SEE SHT. NO. 967A.
- ITEM 512 - SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION) - APPLY A PERMANENT GRAFFITI COATING QUALIFIED ACCORDING TO SUPPLEMENT 1083 THAT IS COMPATIBLE WITH THE CONCRETE SEALER OVER WHICH IT IS APPLIED. APPLY THE GRAFFITI COATING IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.

PARTICIPATION		ESTIMATED QUANTITIES - MSE WALL NO. 1				
01/NHS/PV	02/NHS/PV	ITEM	EXT.	TOTAL	UNITS	DESCRIPTION
98	66	512	10001	164	SY	SEALING OF CONCRETE SURFACES, AS PER PLAN (PERMANENT GRAFFITI PROTECTION) - SEE NOTE 4
98	66	512	10100	164	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
154	102	607	98000	256	FT	FENCE MISC.: WOOD FENCE
1170	780	840	20000	1950	SF	MECHANICALLY STABILIZED EARTH WALL
324	216	840	21000	540	CY	WALL EXCAVATION
178	118	840	22000	296	SY	FOUNDATION PREPARATION
328	218	840	23000	546	CY	SELECT GRANULAR BACKFILL
264	176	840	25010	440	FT	6" DRAINAGE PIPE, PERFORATED
21	14	840	25020	35	FT	6" DRAINAGE PIPE, NON-PERFORATED
130	86	840	26000	216	FT	CONCRETE COPING
3	2	840	27000	5	DAY	ON-SITE ASSISTANCE
		840	28000		LS	SGB INSPECTION AND COMPACTION TESTING



NO.	DESCRIPTION	REV. BY	DATE
5	WALL TYPE REVISED	DJC	1/22/21



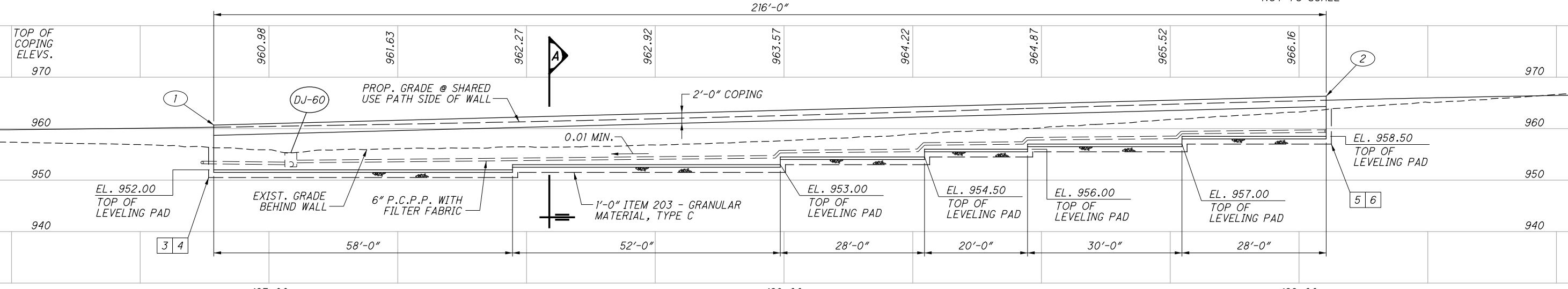
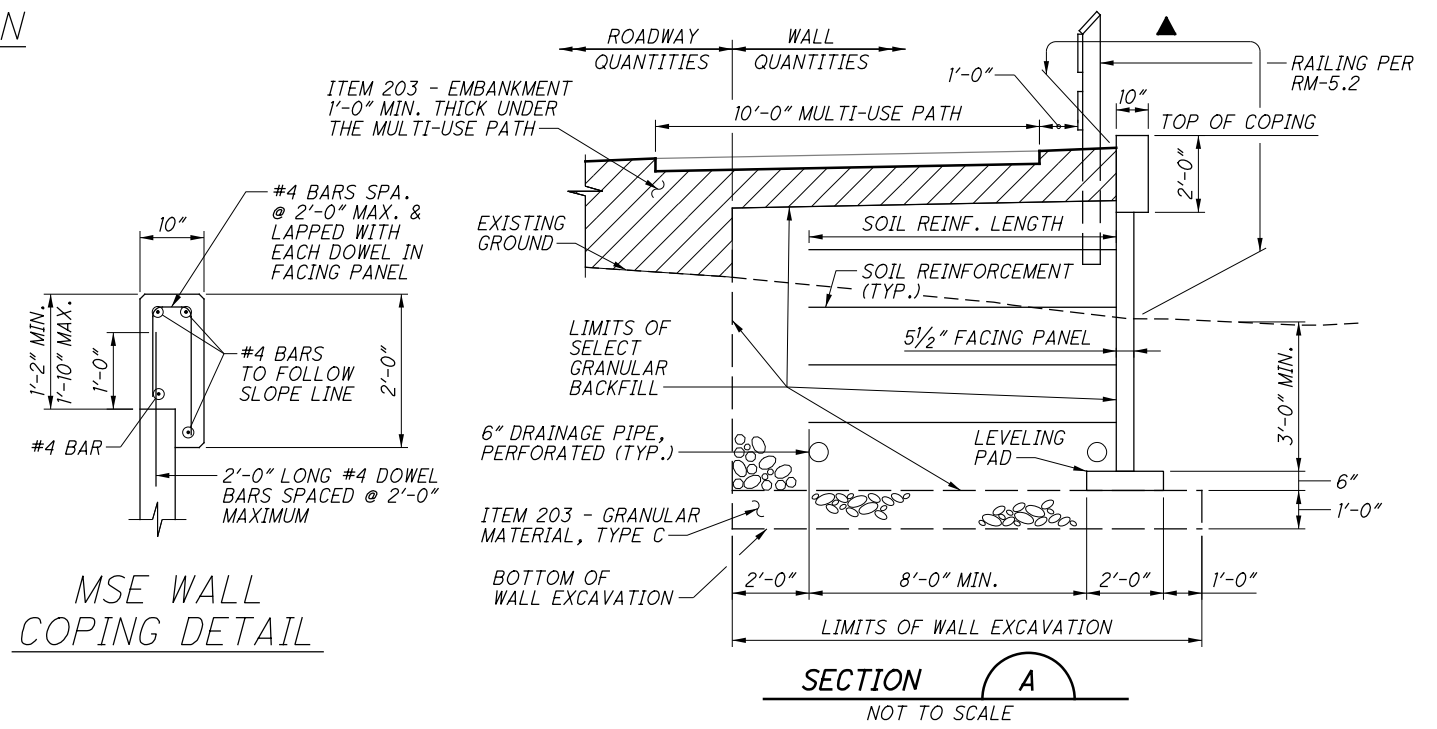
WALL GENERAL NOTES

DESIGN SPECIFICATIONS
 THIS STRUCTURE CONFORMS TO THE 8TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.
 REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS
 800 DATED 10/16/20
 840 DATED 1/15/21
DESIGN LOADING
 LIVE LOAD SURCHARGE OF 0.250 KSF
PROPRIETARY RETAINING WALL DATA
 THE PROPRIETARY WALL SUPPLIER SHALL DESIGN THE INTERNAL STABILITY OF A MECHANICALLY STABILIZED EARTH (MSE) WALL IN ACCORDANCE WITH SS840 TO SUPPORT THE EMBANKMENT AND WALK BEHIND THE WALL. THE PROPRIETARY WALL SUPPLIER SHALL INCLUDE EARTH PRESSURE LOADS FROM THE EMBANKMENT AND LIVE LOAD SURCHARGE IN THE DESIGN CALCULATIONS.
MINIMUM SOIL REINFORCEMENT LENGTH
 PROVIDE MINIMUM SOIL REINFORCEMENT LENGTHS EQUAL TO THE GREATER OF 8 FEET OR A LENGTH EQUAL TO 70% OF THE WALL HEIGHT ACCORDING TO SUPPLEMENTAL SPECIFICATION 840.04.

LEGEND:

- ITEM 840 - 6" DRAINAGE PIPE, NON-PERFORATED, 35'-0" LONG, INCLUDING BENDS, OUTLET TO CATCH BASIN DJ-60 AT INVERT EL. 953.00
- ▲ LIMITS OF ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
- ▨ ITEM 203 - EMBANKMENT (INCLUDED WITH ROADWAY QUANTITIES FOR PAYMENT - SEE THE ROADWAY CROSS-SECTIONS)

POINT	STATION	OFFSET	DESCRIPTION
1	126+89.28	52.00' RT.	BEGIN WALL
2	129+05.28	52.00' RT.	END WALL
3	126+88.28	54.23' RT.	LIMIT OF WALL EXCAVATION
4	126+88.28	42.00' RT.	LIMIT OF WALL EXCAVATION
5	129+06.28	42.00' RT.	LIMIT OF WALL EXCAVATION
6	129+06.28	54.23' RT.	LIMIT OF WALL EXCAVATION



NO.	DESCRIPTION	REV. BY	DATE
5	SHEET ADDED	DJC	1/22/21

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