

GENERAL NOTES

1. ALL PUBLIC IMPROVEMENT CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY AND ONSITE SHALL BE CONDUCTED IN ACCORDANCE WITH, AND CONFORM TO, THE LATEST EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, BOTH AS PUBLISHED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.).

2. INSPECTION OF WORK PER M.A.G. 105.10: THE ENGINEER SHALL BE PERMITTED TO INSPECT ALL MATERIALS, AND EACH PART OR DETAIL OF THE WORK AT ANY TIME FOR THE PURPOSE OF EXPEDITING AND FACILITATING THE PROGRESS OF WORK. HE SHALL BE FURNISHED WITH SUCH INFORMATION AND ASSISTANCE BY THE CONTRACTOR, AS IS REQUIRED TO MAKE A COMPLETE AND DETAILED INSPECTION. THE CITY ENGINEER REQUIRES THAT THE ACTUAL TEST RESULT DATA SHEET ACCOMPANY ALL COMPACTION TEST RESULTS SUBMITTED TO THE CITY'S INSPECTOR. PASS/FAIL STATEMENTS ARE NOT ACCEPTABLE WITHOUT THE ATTACHED DATA SHEET. FAILURE TO SUBMIT THE TEST RESULT DATA SHEETS WILL RESULT IN AN INCOMPLETE SUBMITTAL AND THE TEST WILL BE REJECTED.

3. IN THE EVENT OF CONFLICT BETWEEN M.A.G. STANDARD SPECIFICATIONS AND STANDARD DETAILS AND THESE PLANS, THESE PLANS SHALL PREVAIL.

4. THE OFFICE OF THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST FORTY EIGHT (48) HOURS PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE CITY RIGHT-OF-WAY. TELEPHONE: 520-466-3082.

5. CONTRACTOR IS TO NOTIFY ALL PUBLIC UTILITIES AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, FOR FIELD LOCATIONS OF THEIR RESPECTIVE FACILITIES, BY CONTACTING THE FOLLOWING: BLUE STAKE NUMBER: 1-800-782-5348.

6. CONTRACTOR SHALL COORDINATE AND MAKE ARRANGEMENTS FOR RELOCATION OF ANY UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION OF THESE PLANS, WITH THE APPROPRIATE UTILITY.

7. REMOVAL AND REPLACEMENT OF ALL TREES, SHRUBS, VEGETATION, MISCELLANEOUS STRUCTURES, DEBRIS, RUBBLE AND OTHER DELETERIOUS MATERIALS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

8. ALL CONCRETE SIDEWALKS, DRIVEWAY, APRONS, CROSS-PANS, VALLEY GUTTER, CURBS AND GUTTERS LANDSCAPING AND IRRIGATION THAT MAY BE DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

9. SHORING IS TO BE INSTALLED OR A TRENCH BOX IS TO BE USED, IN ALL TRENCHES IN EXCESS OF FIVE (5') FEET IN DEPTH. A REGISTERED CIVIL ENGINEER OR SOILS ENGINEER SHALL CERTIFY SHORING INSTALLATION PLANS, DETAILS AND SPECIFICATIONS. SHORING MUST CONFORM TO OSHA 29 CFR, PART 1926, AND SUBPART D.

10. COMPACTION TESTING IS REQUIRED AND MUST BE PERFORMED IN THE PRESENCE OF A REPRESENTATIVE OF THE CITY ENGINEER.

BACKFILL: BACKFILL WITHIN THE PUBLIC UTILITY EASEMENT AND WITHIN PUBLIC STREET RIGHT-OF-WAY COMPACT TO 95% OF MAXIMUM THEORETICAL DENSITY PER ASTM D698. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT SHALL BE CONSIDERED UNSUITABLE AND SUBJECT TO REMOVAL. NO HYDRAULIC COMPACTION OR WATER JET COMPACTION WILL BE ALLOWED. ALL COMPACTION MUST BE DONE BY MECHANICAL MEANS. MOISTURE LIMIT SPEC. 2.0 PERCENT BELOW OPTIMUM MOISTURE, MATERIAL SHALL BE UNIFORM.

SUB-GRADE: SUB-GRADE PREPARATION FOR ALL NEW STREETS AND ROADWAYS SHALL CONSIST OF SCARIFYING AND LOOSENING SUB-GRADE TO A DEPTH OF SIX (6") INCHES. SUB-GRADE SHALL BE CONSTRUCTED TO ACHIEVE UNIFORM MOISTURE CONTENT BY THE ADDITION OF WATER AND COMPACTED TO 95% OF MAXIMUM DENSITY. MOISTURE SHALL BE MAINTAINED BETWEEN OPTIMUM AND 4.0% BELOW OPTIMUM MOISTURE AND SHALL BE COMPACTED TO 95% ON MAXIMUM THEORETICAL DENSITY, AS DETERMINED BY ASTM D698. ALL MATERIALS OUTSIDE THE MOISTURE LIMIT AT THE TIME OF PLACEMENT AND COMPACTION SHALL BE CONSIDERED UNSUITABLE AND SUBJECT TO REMOVAL. THE FINISHED SURFACE OF THE SUB-GRADE SHALL NOT VARY FROM THE GRADES ESTABLISHED BY THE CITY ENGINEER BY MORE THAN: 0.04 OF A FOOT ABOVE OR BELOW SPECIFIED GRADE.

11. INSTALL FOUR (4") INCHES OF AGGREGATE BASE COURSE MATERIAL, COMPACTED TO 100% UNDER ALL SIDEWALKS, ALLEYWAY AND DRIVEWAY ENTRANCES.

12. GRADING OF AGGREGATE BASES AND AGGREGATE SUB-BASE SHALL BE AS FOLLOWS: AGGREGATE MATERIALS SHALL HAVE WATER ADDED TO THEM AND SHALL BE MIXED AND PROCESSED TO PRODUCE A UNIFORM BLEND OF MATERIAL BEFORE PLACEMENT. AFTER PROCESSING, THE MATERIAL SHALL BE PLACED AND SPREAD ON THE PREPARED SUB-GRADE AND SHALL BE PLACED IN A UNIFORM LAYER OR LAYERS NOT EXCEEDING SIX (6") INCHES IN COMPACTED DEPTH, UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER. EACH LAYER OF AGGREGATE BASE SHALL BE COMPACTED TO A DENSITY OF NOT LESS THEN 100% OF THE MAXIMUM DENSITY. THE FINISHED SURFACE OF THE SUB-GRADE SHALL NOT VARY FROM THE GRADES ESTABLISHED BY THE CITY ENGINEER BY MORE THAN: 0.04 OF A FOOT ABOVE OR BELOW SPECIFIED GRADE.

13. COMPACTION TESTING FOR SUB-GRADE WILL BE DONE AFTER THE SUB-GRADE HAS BEEN STRING LINED AND IS WITHIN TOLERANCE AND ACCEPTED BY THE CITY ENGINEER. THE CITY ENGINEER OR HIS REPRESENTATIVE WILL DIRECT THE NUMBER AND LOCATION OF DENSITY TESTS. ALL SUB-GRADES SHALL HAVE A BLUE-TOP ELEVATION SET TO FINISHED GRADE AND LEFT AND RIGHT EDGES OF PAVEMENT, AND CENTERLINE OF ROADWAY.

14. ONE (1) SAND CONE TEST SHALL BE REQUIRED FOR EVERY TEN (10) NUCLEAR DENSITY TESTS PERFORMED, OR WHEN HAVE REQUESTED BY THE CITY ENGINEER OR HIS REPRESENTATIVE. THE CITY ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL DETERMINE THE LOCATIONS OF THESE SAND CONE TESTS.

15. ALL MATERIALS, INCLUDING BUT NOT LIMITED TO AGGREGATE BASE COURSE, BORROW MATERIAL AND NATIVE MATERIAL, WILL BE ACCEPTED IN PLACE ONLY. TESTING REQUIRED FOR ACCEPTANCE WILL INCLUDE A SIEVE ANALYSIS AND PLASTICITY INDEX, (P.I.), DETERMINATION OF MAXIMUM THEORETICAL DENSITY WILL BE IN ACCORDANCE WITH ASTM D698. ONLY A FOUR POINT PROCTOR TEST WILL BE ACCEPTED.

16. THE BASE COURSE SHALL NOT BE PLACED ON SUB-GRADE UNTIL THE CITY ENGINEER HAS ACCEPTED THE SUB-GRADE. ALL MATERIALS WILL BE ACCEPTED IN PLACE ONLY.

17. COMPACTION DENSITIES: M.A.G. TYPE I BACKFILL MATERIAL (SECTION 601.4.4) IS MODIFIED TO INCLUDE AREAS UNDER THE PAVEMENT, RIGHT-OF-WAY, AND EASEMENTS FOR ALL TRENCHES INCLUDING SEWER, WATER, ELECTRIC, GAS, TELEPHONE, AND STORM DRAINS, MOISTURE SPEC. 2.0 PERCENT BELOW OPTIMUM MOISTURE COMPACT TO 95% OF MAXIMUM THEORETICAL DENSITY. ALL MATERIALS OUTSIDE THE MOISTURE SPEC-LIMIT SHALL BE CONSIDERED UNSUITABLE, SUBJECT TO REMOVAL AND MATERIAL SHALL BE UNIFORM.

18. THE LOCATION OF ALL SEWER STUB-OUTS SHALL BE STAMPED ON THE TOP OF VERTICAL CURB, AND FACE OF ROLLED CURBS, WITH A FOUR (4") INCH HIGH LETTERS (IE: "S").

19. ALL CURB, GUTTER AND SIDEWALK EXPANSION JOINT FILLER WILL BE 1/2" BITUMINOUS PRE-MOLDED STRIPS. ALL EXPANSION JOINT SPACING SHALL NOT EXCEED A MAXIMUM OF (50') FEET OR AS DIRECTED BY THE CITY ENGINEER. CONCRETE CURING COMPOUND MATERIAL SHALL BE A WHITE PIGMENT MEMBRANE USED ON ALL CONCRETE STRUCTURES INCLUDING CURB & GUTTER, SIDEWALK, HEADWALL, CATCH BASINS AND SIDEWALK RAMPS.

20. PAVING WILL NOT COMMENCE UNTIL AGGREGATE BASE COURSE COMPACTION AND GRADATION TESTS ARE COMPLETED AND THE CITY ENGINEER ACCEPTS THE RESULTS.

21. NO TRENCH IN PUBLIC RIGHT-OF-WAY SHALL BE LESS THAN TWELVE (12") IN WIDTH TO ENSURE PROPER COMPACTION AND TESTING.

STAKING NOTES

CALL THE BLUE STAKE CENTER (263-1100) 48 HOURS BEFORE DIGGING FOR LOCATION OF UNDERGROUND UTILITIES AND NOTIFY SRP.

ALL OFFSET OR REFERENCE STAKES SET BY THE ENGINEER ARE TO BE MAINTAINED INTACT. NO CLAIMS FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY UNLESS SUCH STAKES ARE PRESENT AND THEIR ORIGIN IS VERIFIED. IF STAKES ARE NOT MAINTAINED INTACT ALL CORRECTIONS SHALL BE MADE BY THE CONTRACTOR AT HIS EXPENSE.

ONE SET OF STAKES WILL BE FURNISHED BY THE OWNER FOR THE WATER LINE, WATER SERVICES, FIRE HYDRANT LOCATIONS AND GRADE, SEWER LINES AND SERVICES, CONCRETE, SUBGRADE AND A.B.C.. ALL ADDITIONAL STAKING TO BE CHARGE TO THE CONTRACTOR. 24 WORKING HOUR NOTICE IS REQUIRE FOR STAKING BY THE SUBDIVISION ENGINEER.

AS-BUILTS CERTIFICATION

I HEREBY CERTIFY THAT THE "AS-BUILT" MEASUREMENTS AS SHOWN OR NOTED HEREON WERE MADE BY MYSELF OR UNDER MY SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

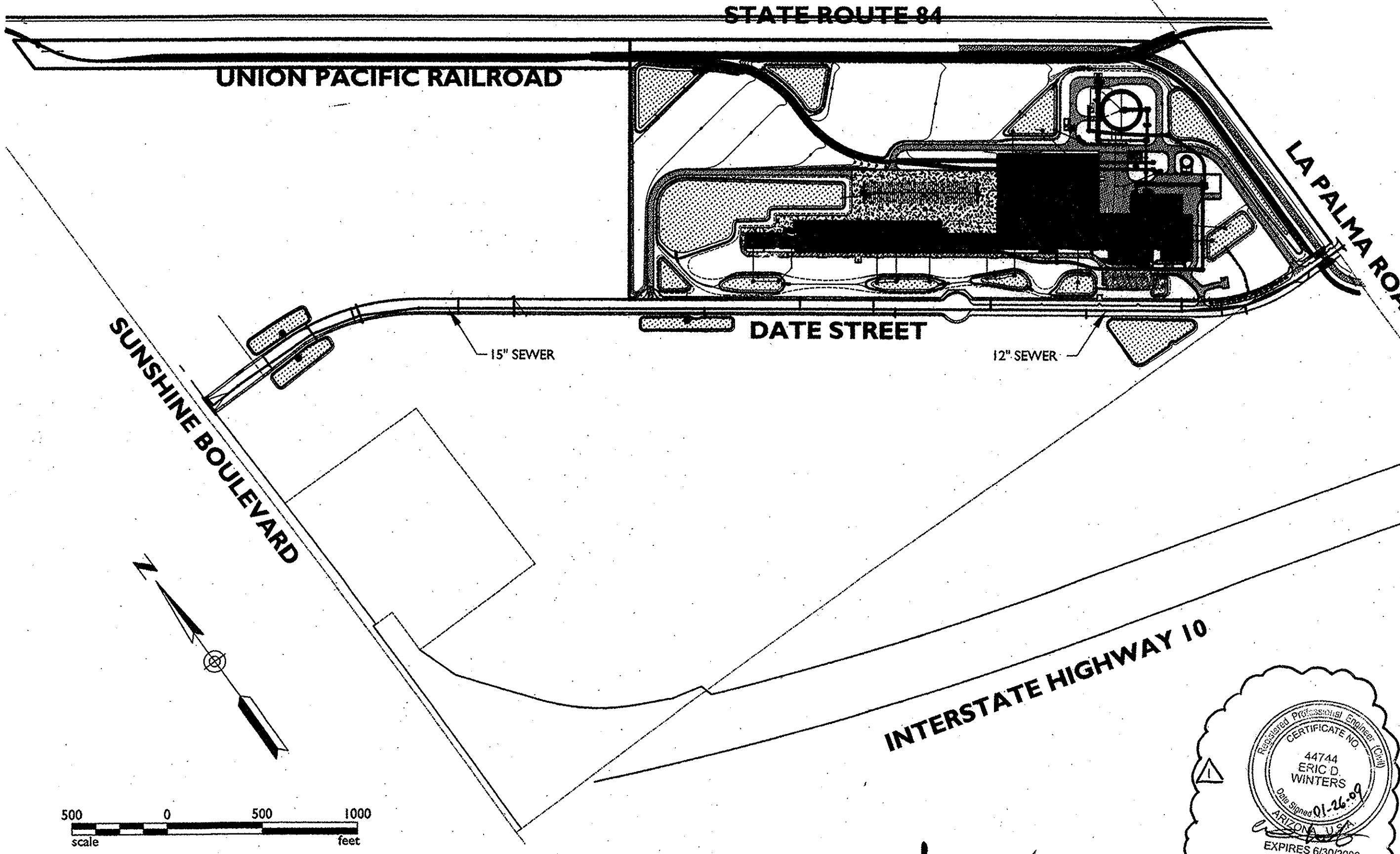
OFFSITE SEWER PLANS FOR NATIONAL GYPSUM COMPANY ELOY, ARIZONA

A portion of Section 8 & Section 17, T. 8 S., R. 8 E., of the Gila and Salt River Meridian, Pinal County, Arizona

ESTIMATED QUANTITIES

QUANTITIES ARE FOR ESTIMATING PURPOSES ONLY. ENGINEER MAKES NO GUARANTEE OF ACCURACY.

ITEM	QUANTITY
50B 6" PVC (SDR-35) SEWERLINE	120 LF
50C 8" PVC (SDR-35) SEWERLINE	574 LF
50E 12" PVC (SDR-35) SEWERLINE	2938 LF
50F 15" PVC (SDR-35) SEWERLINE	3218 LF
52B 5' DIA SEWER MANHOLE MAG 420,422,424 W/ 30" DIAM COVER	15 EA
W/ MANHOLE LINING PROVIDED BY SAUERREISEN, SEWER SHIELD, OR RAVEN LINING SYSTEMS	
56 PLUG PIPE MAG 427	15 EA



RESPONSIBLE PARTY

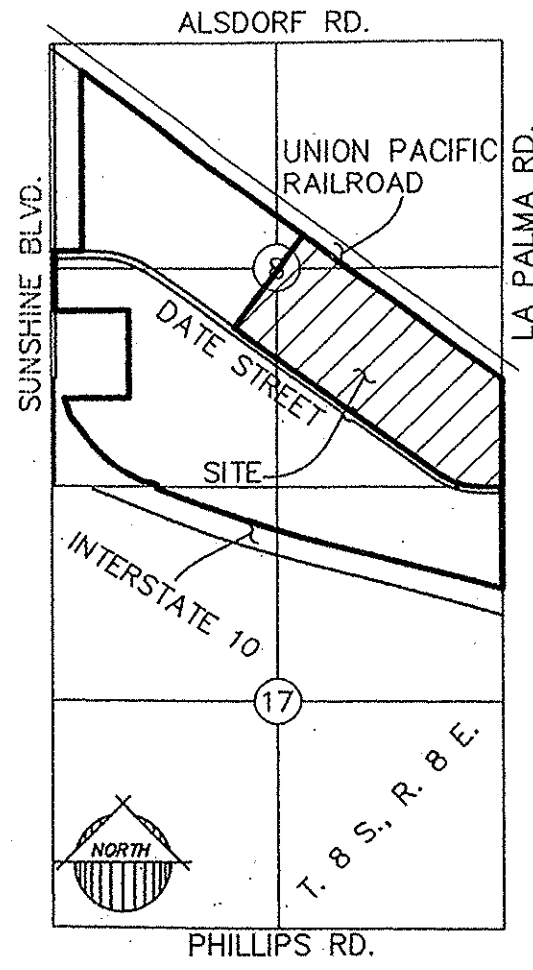
NEW NGC, INC.
2001 REXFORD ROAD
CHARLOTTE, NC 28211
PHONE (704)-365-7300
FAX (704)-365-7316
CONTACT: JOE BROWN

GENERAL CONTRACTOR

BOVIS LEND LEASE
2550 WEST TYVOLA ROAD, SUITE 600
CHARLOTTE, NC 28217
PHONE (704)-357-2899
FAX (704)-357-2992
CONTACT: MIKE CHAMBERLAIN

ENGINEER

EPS GROUP, INC.
2150-I S. COUNTRY CLUB DR., STE 22
MESA, AZ 85210
PHONE (480)-503-2250
FAX (480)-503-2258
CONTACT: ERIC WINTERS, PE



VICINITY MAP

N.T.S.

NATIONAL GYPSUM CO. PHYSICAL ADDRESS:
750 E. DATE STREET
ELOY, ARIZONA 85231

NOTE:
THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES UPON HIMSELF THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THEM WITHOUT CONFERRING WITH THE ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.

COORDINATION LIST

DESCRIPTION	REPRESENTATIVE	PHONE
ARIZONA PUBLIC SERVICE CO.	JEFF CREEDON	520-421-8395
EAGLE WEST CABLE	PETE COLLINGS	800-558-5564
ELECTRIC DISTRICT NO. 4	RON WILHITE	520-466-7336
EL PASO GAS CO.	RON BROWN	602-438-4232
SOUTHWEST GAS CO.	ROY ARCHER	520-421-1548
QWEST COMMUNICATIONS	RICK PETERS	520-836-1997
KINDER MORGAN	DON QUINN	714-560-4400

SHEET INDEX

DESCRIPTION	SHEET NO.
COVER SHEET	CS01
NOTES & DETAIL SHEET	CS02
INDEX SHEET	CS03
DETAIL SHEET	DT01
OFFSITE SEWER PLANS	SP01-SP06
	5-10

BENCHMARK

NGS STATION S363
NAVD 88
ELEV: 1553.80
SUBTRACT 0.29' FROM ELEVATIONS SHOWN ON THESE PLANS FOR CURRENT CITY OF ELOY DATUM.

BASIS OF BEARING

THE WEST LINE OF THE SOUTHWEST QUARTER OF SECTION 8, T. 8 S., R. 8 E. AS USED BY SOUTHWESTERN STATES SURVEYING ALTA/ACSM LAND TITLE SURVEYS JOB NO. 230577, DATED 6/30/03 AND JOB NO. 2509128 DATED 9/27/05

BEARING: N00°30'00"W

APPROVALS

THE AUTHORIZED REPRESENTATIVES OF THE FOLLOWING AGENCIES HEREBY ACKNOWLEDGE OR HAVE ACKNOWLEDGED THAT THEY HAVE REVIEWED AND APPROVED THE DESIGN SHOWN BY THESE DRAWINGS. CONSTRUCTION MAY BEGIN AFTER ALL APPROPRIATE PERMITS HAVE BEEN OBTAINED.

CITY OF ELOY
CITY ENGINEER
DATE Sept 30, 2007

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
BY LETTER
DATE 08/10/07
FILE NO. 20070326

NEW WALLBOARD FACILITY

FOR

National Gypsum
COMPANY

ELOY, ARIZONA

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eps group, Inc.
Engineers, Planners & Surveyors

2150-I S. Country Club Dr., Ste. 22
Mesa, Arizona 85210
Phone (480) 503-2250
Fax (480) 503-2258
www.epsgroupllc.com

SEAL



REV DATE DRAWN DESCRIPTION

11-20-08 ADDITION OF STORM DRAIN EQUALIZER PIPE W/NECESSARY REMOVAL & REPLACEMENT AFTER ORIGINAL CONSTRUCTION
11-20-08 ADDITION OF PIPE CULVERTS WITH NECESSARY REMOVAL & REPLACEMENT AFTER ORIGINAL CONSTRUCTION

THIS DOCUMENT HAS BEEN ISSUED SOLELY FOR THE PURPOSE(S) NOTED IN THE REVISION BLOCK. UNTIL THIS SHEET HAS BEEN SPECIFICALLY ISSUED FOR CONSTRUCTION, FINAL PROJECT COORDINATION IS INCOMPLETE AND THE INFORMATION SHOWN HERE IS SUBJECT TO REVISION.

NOTE: PROVIDE NATIONAL GYPSUM PRODUCTS FOR ALL APPLICABLE MATERIALS. PRODUCTS FROM COMPETITORS TO NATIONAL GYPSUM COMPANY SHALL NOT BE ACCEPTABLE.

SHEET TITLE

COVER SHEET

DRAWN: MPZ	
CHECKED: AMT	SHEET SIZE: 24x36
APPROVED: EDW	PLOT FACTOR: PAPER
PROJECT: 07-013	DATE: 04-27-07
CAD NAME: CS01	SCALE: 1"=500'

DRAWING NUMBER
07-013-CS01
1 of 10

SEWER NOTES

1. 100% OF THE SEWER LINES SHALL BE TESTED FOR INFILTRATION AND EX-FILTRATION IN ACCORDANCE WITH AAC R18-9-E301.4.01 D.2.J; BY USING LOW PRESSURE AIR TESTING METHODS. TESTING SHALL BE DONE AFTER ALL WET AND DRY UTILITIES HAVE BEEN INSTALLED AND PROPERLY BACKFILLED. ALL SEWER TESTING SHALL BE DONE IN THE PRESENCE OF THE CITY ENGINEER OR CITY INSPECTOR.

2. SEWER DESIGN REPORT:

BY: EPS GROUP, INC. DATED: 06/25/2007
JOB NUMBER: # 07-012

3. ALL SEWER LINES SHALL HAVE AT LEAST 3.0' FEET OF BACKFILL COVER TO THE TOP OF PIPE.

4. ALL SEWER LINES SHALL BE TESTED FOR UNIFORM SLOPE IN ACCORDANCE WITH AAC R18-9-E301.D.2.K.

5. CONTRACTOR SHALL PERFORM SHORT TERM DEFLECTION TESTING ON ALL SECTIONS OF PVC GRAVITY SEWER PIPES **NO SOONER THAN 30 DAYS AFTER COMPLETION OF BACKFILL AND COMPACTION, BUT PRIOR TO THE INSTALLATION OF FINISH SURFACE MATERIALS**. A SHORT TERM DEFLECTION IN EXCESS OF 5% SHALL BE CONSIDERED UNSERVICEABLE AND SHALL BE REPAIRED OR REPLACED AND RETESTED. TESTING IS TO BE INCIDENTAL TO THE PIPE INSTALLATION. M.A.G. 615 (C) DEFLECTION TESTING FOR HDPE AND PVC PIPE: AFTER ALL DRY UTILITIES HAVE BEEN INSTALLED PERFORM 100% DEFLECTION TESTING ON ALL SEWER PIPES AFTER BACKFILL AND COMPACTION. ALL TESTING SHALL BE DONE IN THE PRESENCE OF THE CITY ENGINEER OR CITY INSPECTOR.

6. FLEXIBLE PIPE MATERIAL FOR GRAVITY SANITARY SEWERS SHALL BE SDR 35 PVC AND COMPLY WITH THE FOLLOWING SPECIFICATIONS: PVC, ASTM D-3034. ALTERNATIVE PIPE MATERIALS ARE NOT PERMITTED.

7. INSTALLATION OF PLASTIC PIPE MUST COMPLY WITH ASTM D-2321, CLASS 12 EMBANKMENT MATERIALS ONLY.

8. ALL SANITARY SEWER MANHOLES SHALL BE 48" INCH DIAMETER, EXCEPT AS OTHERWISE NOTED ON THE PROJECT PLANS, AND SHALL BE CONSTRUCTED IN COMPLIANCE WITH M.A.G. STD. DETAILS 420-1 AND 420-2. TYPE "A" CONICAL TOP. "RAM NECK" GASKETS OR APPROVED EQUAL ARE TO BE INSTALLED BETWEEN PRE-CAST MANHOLE SECTIONS. CONTRACTOR IS TO FURNISH AND INSTALL A PLASTIC INFLOW PROTECTOR, WITH CHECK VALVE, BENEATH THE MANHOLE LID, PER CITY REQUIREMENTS. FLAT TOP BANDS ALLOWED IN SHALLOW APPLICATIONS (LESS THAN 30") WITH APPROVAL BY THE CITY ENGINEER.

9. SANITARY MANHOLES SHALL BE COATED ON ALL INSIDE SURFACES WITH A 2 COAT, HI-SOLIDS, EPOXY COATING, TNMEC SYSTEM 104-S OR KOPPERS HI-GUARD EPOXY, OR APPROVED EQUAL. DRY MIL THICKNESS SHALL BE 20-MILS. MANHOLES SHALL BE COATED PRIOR TO ARRIVAL ON SITE. AFTER MANHOLES HAVE BEEN SET IN PLACE, AN ADDITIONAL SECOND COATING OF EPOXY SHALL BE APPLIED. NO MANHOLE STEPS SHALL BE INSTALLED IN MANHOLES. WATER EX-FILTRATION TESTING OF MANHOLES IS NOT PERMITTED.

10. VACUUM TESTING PER AAC R189-9-E301.D.3.F.1 SHALL TEST ALL MANHOLES FOR WATER TIGHTNESS. COSTS OF TESTING ARE INCIDENTAL TO SEWER MANHOLE CONSTRUCTION.

11. MANHOLE CONCRETE COLLARS SHALL BE 1' FOOT DEEP AND 1' FOOT WIDE OUTSIDE OF RIM CASTING. COLLARS SHALL BE USED IN UNPAVED AS WELL AS PAVED AREAS. ALSO, GREEN, FIBERGLASS LOCATOR REFLECTIVE DELINEATORS ARE REQUIRED AT EACH MANHOLE NOT LOCATED IN A PAVED AREA. I.E.: STREETS, PARKING LOTS, ETC.

12. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SEWER MANHOLE. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND MANHOLES SHALL BE SIX (6) FEET, MEASURED FROM THE OUTSIDE OF WATER MAIN PIPE.

13. SANITARY SEWER EX-FILTRATION TESTING WILL ONLY BE CONSIDERED WHEN LOW PRESSURE TESTING CANNOT BE USED,AND ONLY WITH WRITTEN, PRIOR APPROVAL, OF THE CITY ENGINEER.

14. THE MINIMUM SEPARATION BETWEEN FORCE MAINS OR PRESSURE SEWERS AND WATER MAINS SHALL BE TWO (2) FEET VERTICALLY AND SIX (6) FEET HORIZONTALLY UNDER ALL CONDITIONS. WHERE A SEWER FORCE MAIN CROSSES ABOVE, OR LESS THAN TWO (2) FEET BELOW A WATER LINE, THE CROSSING IS REQUIRED TO HAVE "EXTRA PROTECTION" AS DESCRIBED IN NOTE #17.

15. VERTICAL SEPARATION NOTE: WHEN A GRAVITY SEWER CROSSES TWO (2) FEET OR MORE BELOW A WATERLINE NO EXTRA PROTECTION IS REQUIRED. WHEN A GRAVITY SEWER CROSSES LESS THAN TWO (2) FEET BELOW, OR ABOVE A WATERLINE, EXTRA PROTECTION IS REQUIRED. THE PROTECTION WILL BE CONSISTENT WITH THAT DESCRIBED IN NOTE #16. IN NO CASE SHALL A SEWER LINE CROSS LESS THAN TWO (2) ABOVE A WATERLINE.

16. HORIZONTAL SEPARATION NOTE: WHEN A GRAVITY SEWER IS LAID PARALLEL WITH A WATERLINE, THE MINIMUM SEPARATION SHALL BE SIX (6) FEET MEASURED FROM OUTER EDGES OF THE PIPES. WHEN THE TWO LINES ARE LESS THAN SIX (6) FEET APART, EXTRA PROTECTION SHALL BE REQUIRED. THE PROTECTION SHALL BE CONSISTENT WITH THAT DESCRIBED IN NOTE #17. IN NO CASE SHALL A GRAVITY SEWER AND WATERLINE BE LESS THAN TWO FEET APART WHEN PARALLEL.

17. EXTRA PROJECTION: EXTRA PROTECTION SHALL CONSIST OF CONSTRUCTING THE SANITARY SEWER MAIN WITH MECHANICAL JOINT OR RESTRAINED JOINT DUCTILE IRON PIPE FOR A DISTANCE OF TEN (10) FEET ON EITHER SIDE OF THE WATER MAIN. THE DUCTILE IRON PIPE SHALL COMPLY WITH THE AGENCY'S REQUIREMENTS FOR SEWER INSTALLATION. IN THE CASE OF A CROSSING, THE NUMBER OF JOINTS SHALL BE HELD TO A MINIMUM WITH ONE FULL JOINT OF PIPE CENTERED OVER OR UNDER THE OTHER. AN ALTERNATE PROTECTION MAY CONSIST OF ENCASEING BOTH PIPES IN CONCRETE FOR A DISTANCE OF TEN FEET ON EITHER SIDE OF THE CROSSING OR PASSED THE POINT WHERE MINIMUM SEPARATIONS, AS DESCRIBED IN NOTES 12 THROUGH 14, ARE NOT MET (M.A.G. STD. DETAIL 404-1).

18. WHEN UNUSUAL CONDITIONS, SUCH AS BUT NOT LIMITED TO HIGHWAY OR BRIDGE CROSSINGS, PREVENT THE WATER AND SEWER SEPARATIONS REQUIRED ABOVE (NOTES 12 THROUGH 14) FROM BEING MET, THE DEPARTMENT OF ENVIRONMENTAL QUALITY AND CITY ENGINEER WILL REVIEW AND MAY APPROVE REQUESTS FOR AUTHORIZATION TO USE OTHER ALTERNATE CONSTRUCTION TECHNIQUES, MATERIALS AND JOINTS, ON A CASE BY CASE BASIS. IN SUCH INSTANCES, A COMPLETE DESCRIPTION OF THE CIRCUMSTANCES AND DETAILS OF THE PROPOSED CONSTRUCTION SHALL BE ATTACHED TO THE PLANS SUBMITTED TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY AND CITY ENGINEER. IN NO CASE SHALL THE SEWER INFRINGE UPON AN AREA, WHICH IS WITHIN TWO (2) FEET OF EITHER SIDE OF A WATER MAIN. SEPARATION MUST COMPLY WITH AAC R18-9-811.

19. CONTRACTOR SHALL INSTALL A THREE (3) FOOT LONG PIECE OF #5 REBAR AT THE END OF EACH SANITARY SEWER STUB-OUT, PRIOR TO BACKFILL AND AFTER INVERT ELEVATIONS HAVE BEEN AS-BUILT.

20. ALL SEWER MAINS SHALL BE CLEANED BY HYDRO-VACUUM METHOD AFTER MANHOLE FRAMES AND COVERS HAVE BEEN ADJUSTED TO FINAL GRADE. TV INSPECTION OF ALL MAINS IS REQUIRED PRIOR TO FINAL WALK-THROUGH.

21. SEWER SERVICES ARE NOT ALLOWED IN MANHOLES.

22. SEWER CLEANOUTS ARE NOT ALLOWED IN THE PUBLIC SYSTEM. MANHOLES SHALL BE USED IN ALL INSTANCES FOR SEWER MAIN CONNECTIONS.

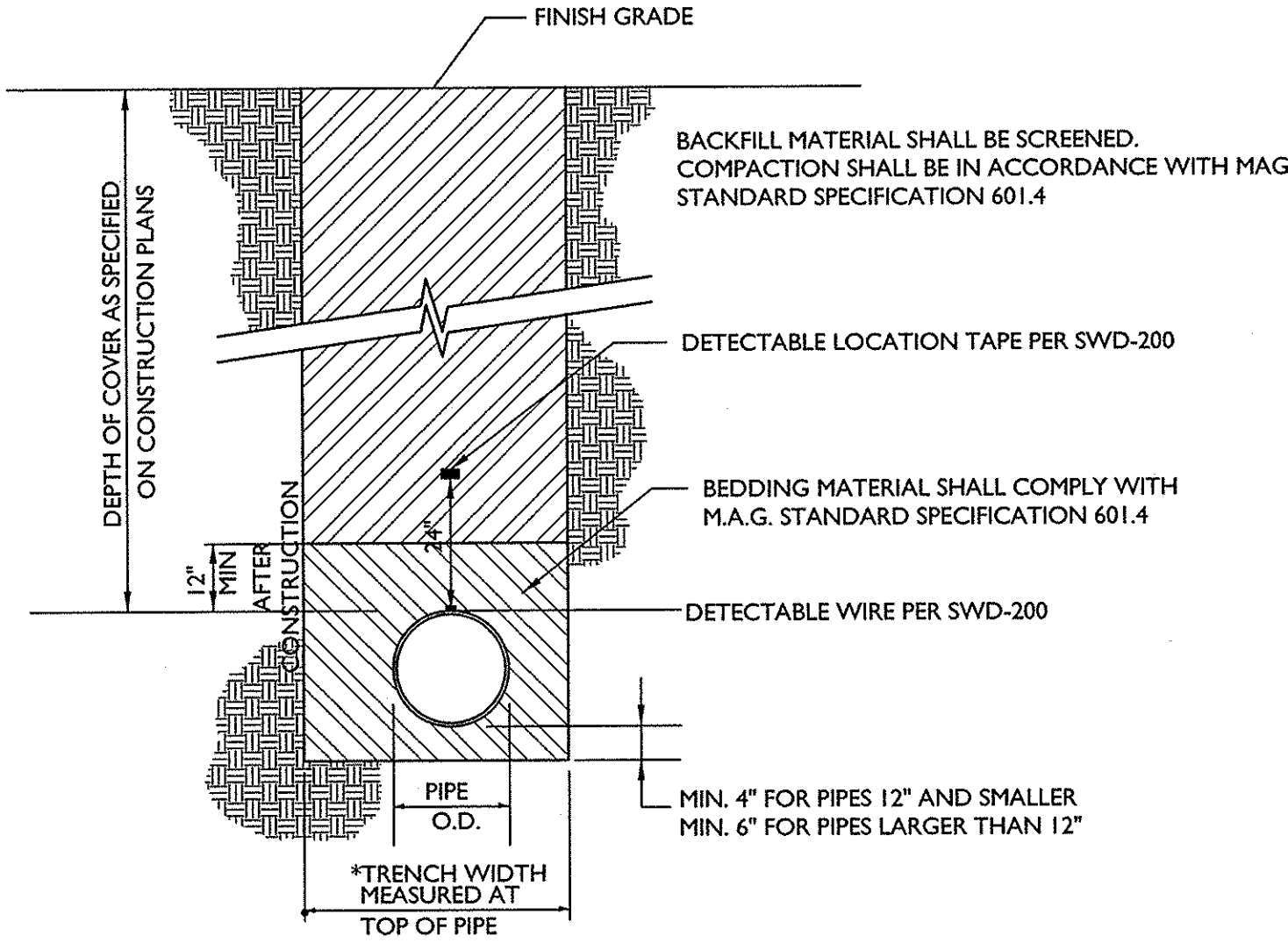
23. FOUR (4") INCH HOUSE SEWER SERVICES SHALL NOT BE CONNECTED UNTIL THE SEWER MAIN HAS BEEN ACCEPTED BY THE CITY OF ELOY. ALL HOUSE SEWER SERVICES SHALL BE LEFT UNCOVERED , AND CAPPED, UNTIL SEWER TESTING IS COMPLETE AND SYSTEM HAS BEEN ACCEPTED.

24. ABC BEDDING MATERIAL OF FOUR INCHES (4") SHALL BE COMPACTED TO 95% FOR ALL SEWER MAIN PIPES.

25. MANHOLE FOUNDATIONS FOR ALL SANITARY SEWER BASES SHALL BE CONSTRUCTED PER M.A.G. SECTIONS 505 AND 725 AND M.A.G. STANDARD DETAIL 420-2.

26. NEW SEWER INSTALLATIONS CANNOT BE CONNECTED TO THE EXISTING SYSTEM UNTIL ACCEPTED BY THE CITY ENGINEER. A PLUG MUST BE INSTALLED IF CONNECTION IS MADE TO AN EXISTING MANHOLE, UNTIL SUCH TIME AS ALL TESTING OF THE NEW SEWER SYSTEM IS COMPLETED AND PASSED BY THE CITY OF ELOY.

27. **SEWER PLAN AS-BUILTS:** AS-BUILT SEWER PLANS SHALL BE PREPARED BY THE DESIGN ENGINEER AND SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: MANHOLE RIM AND INVERT ELEVATIONS, ALL SEWER STUB-OUT INVERT ELEVATIONS TO ALL LOTS, EXISTING SEWER TIE-IN INVERT ELEVATION, ANY AND ALL DEVIATIONS FROM APPROVED PLANS.



* TRENCH WIDTH MEASURED AT TOP OF THE PIPE SHALL BE 18" FOR 4" AND 6" MAINS, AND 24" FOR 8" MAINS
TRENCH WIDTH FOR 12" AND LARGER MAINS SHALL BE O.D. + 18" MIN AND O.D. + 24" MAX

SWD-200-1 & 2
SEWER TRENCH DETAIL

NTS

NEW WALLBOARD FACILITY
FOR
National Gypsum
COMPANY
ELOY, ARIZONA

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SEAL

Professional Engineer
CERTIFICATE NO. 44744
ERIC D. WINTERS
Exp. 06/19/2011
ARIZONA, U.S.A.

REV	DATE	DRAWN	DESCRIPTION
THIS DOCUMENT HAS BEEN ISSUED SOLELY FOR THE PURPOSE(S) NOTED IN THE REVISION BLOCK. UNTIL THIS SHEET HAS BEEN SPECIFICALLY ISSUED FOR CONSTRUCTION, FINAL PROJECT COORDINATION IS INCOMPLETE AND THE INFORMATION SHOWN HERE IS SUBJECT TO REVISION.			

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SHEET TITLE
**NOTES & DETAIL
SHEET**

DRAWN: MPZ	
CHECKED: AMT	SHEET SIZE: 24x36
APPROVED: EDW	PLOT FACTOR: PAPER
PROJECT: 07-013	DATE: 04-27-07
CAD NAME: CS02	SCALE: N.T.S.

	Proposed Sewer Line
	Proposed Sewer Manhole
	Proposed Sewer Plug
	Exist. Sewer Line
	Exist. Sewer Manhole



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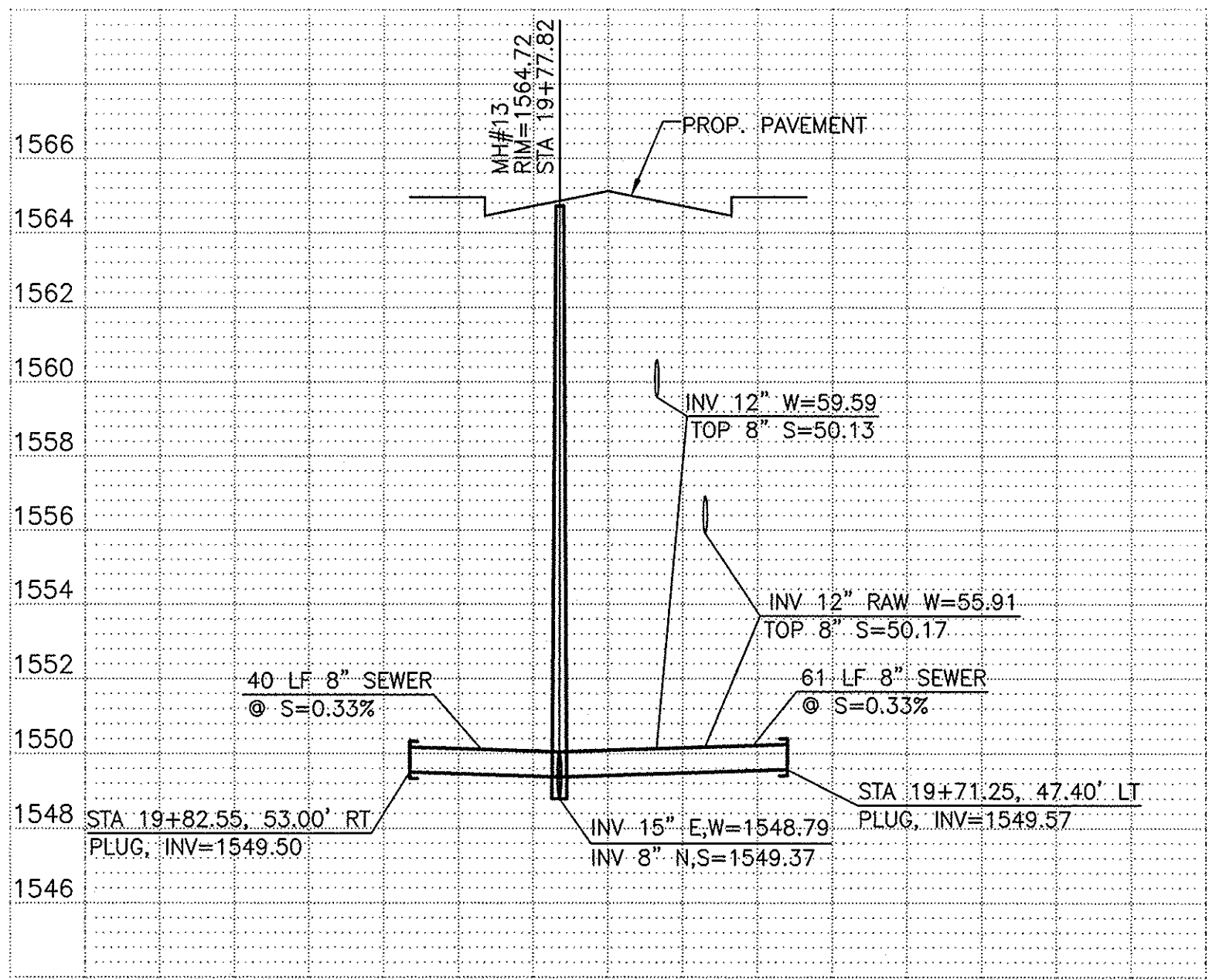
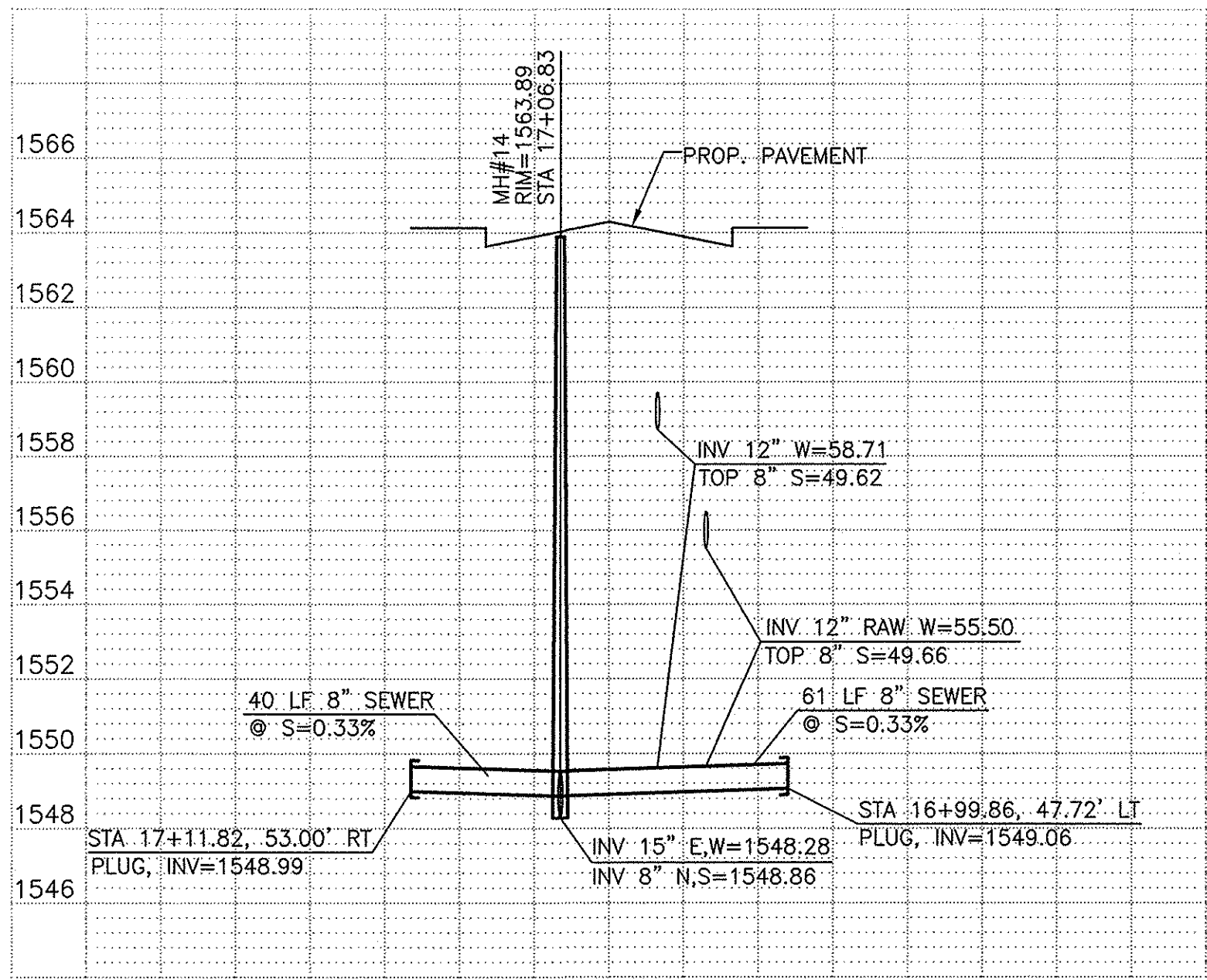
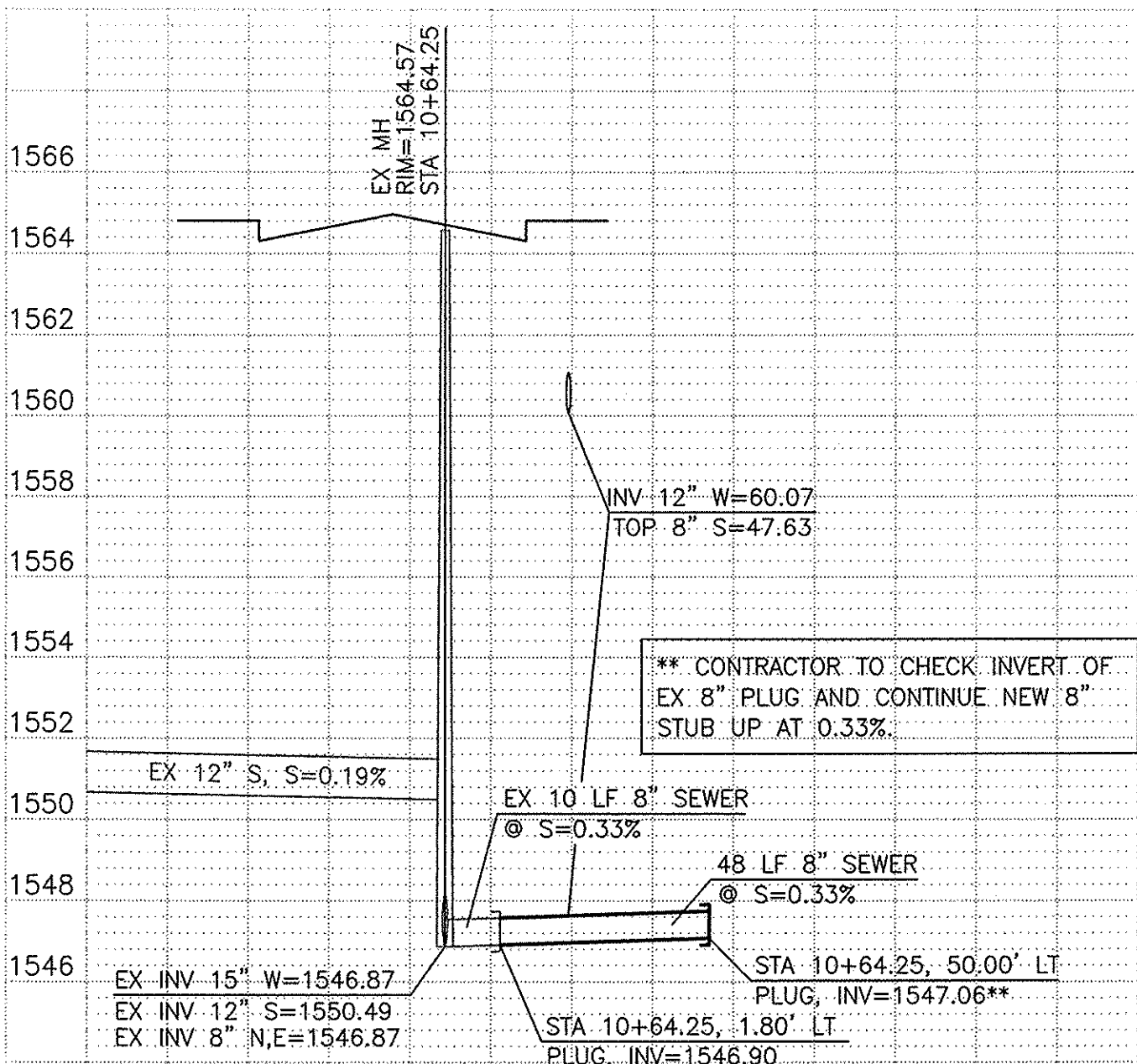
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APPROVED: EDW	PLOT FACTOR: PAPER
PROJECT: 07-013	DATE: 04-27-07
DRAWING NAME: CS03	SCALE: 1"=80'

DRAWING NUMBER

7-013-CS03

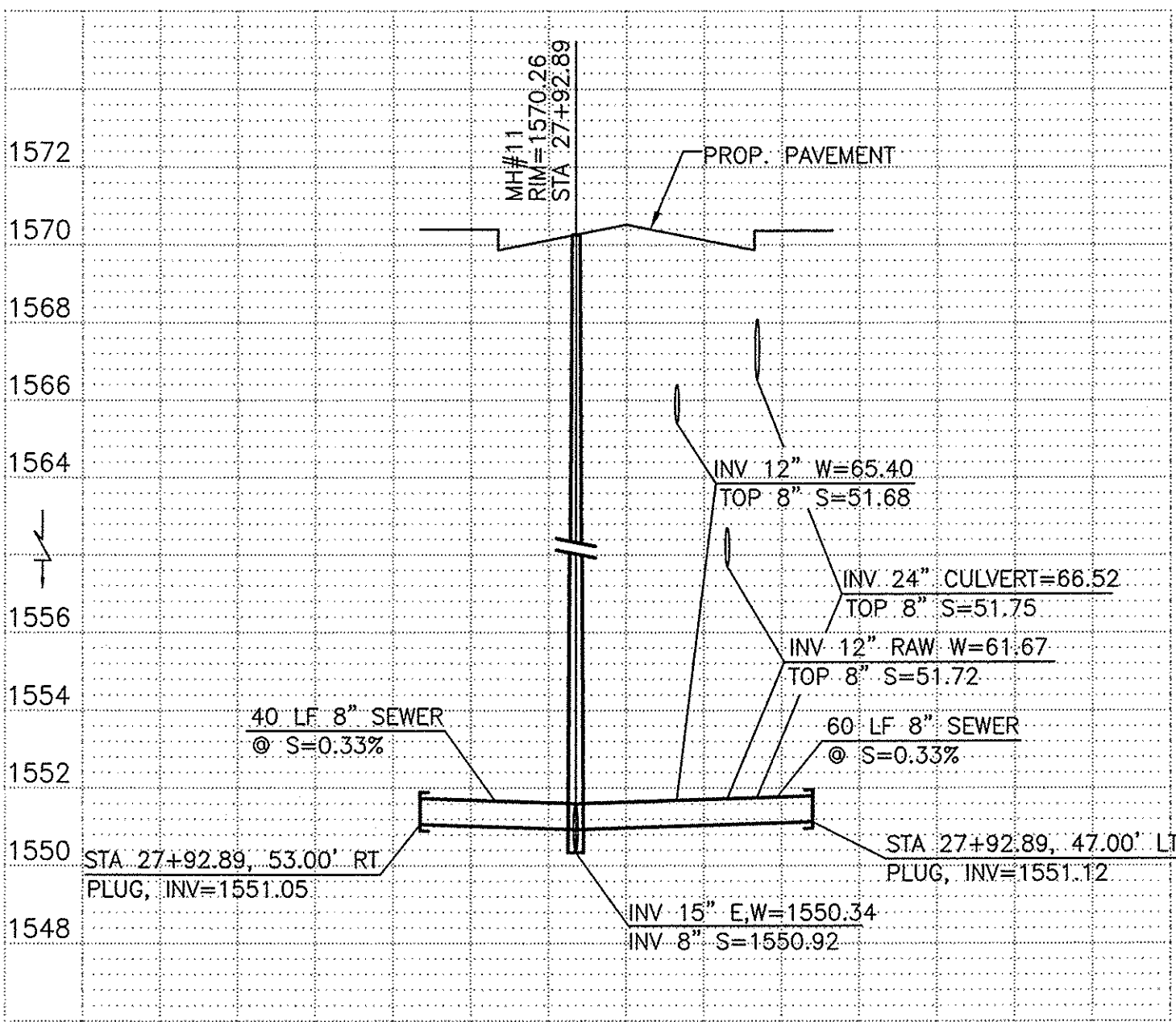
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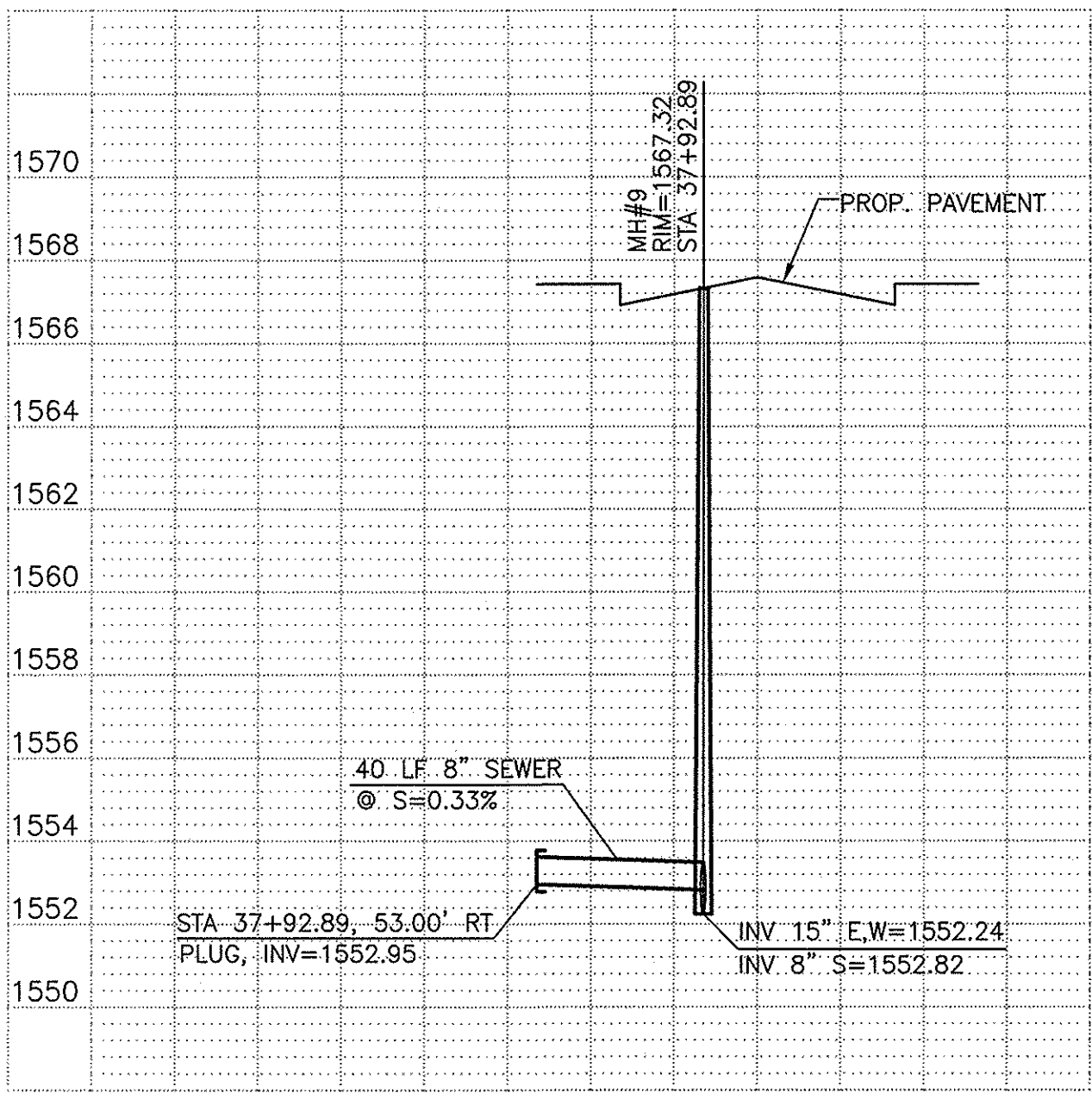
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STA 10+64.25 HORIZONTAL 1"=40' VERTICAL 1"=4' LOOKING WEST
SEE SHEET 5

② SEWER PROFILE
STA 17+06.83 HORIZONTAL 1"=40' VERTICAL 1"=4' LOOKING WEST
SEE SHEET 5

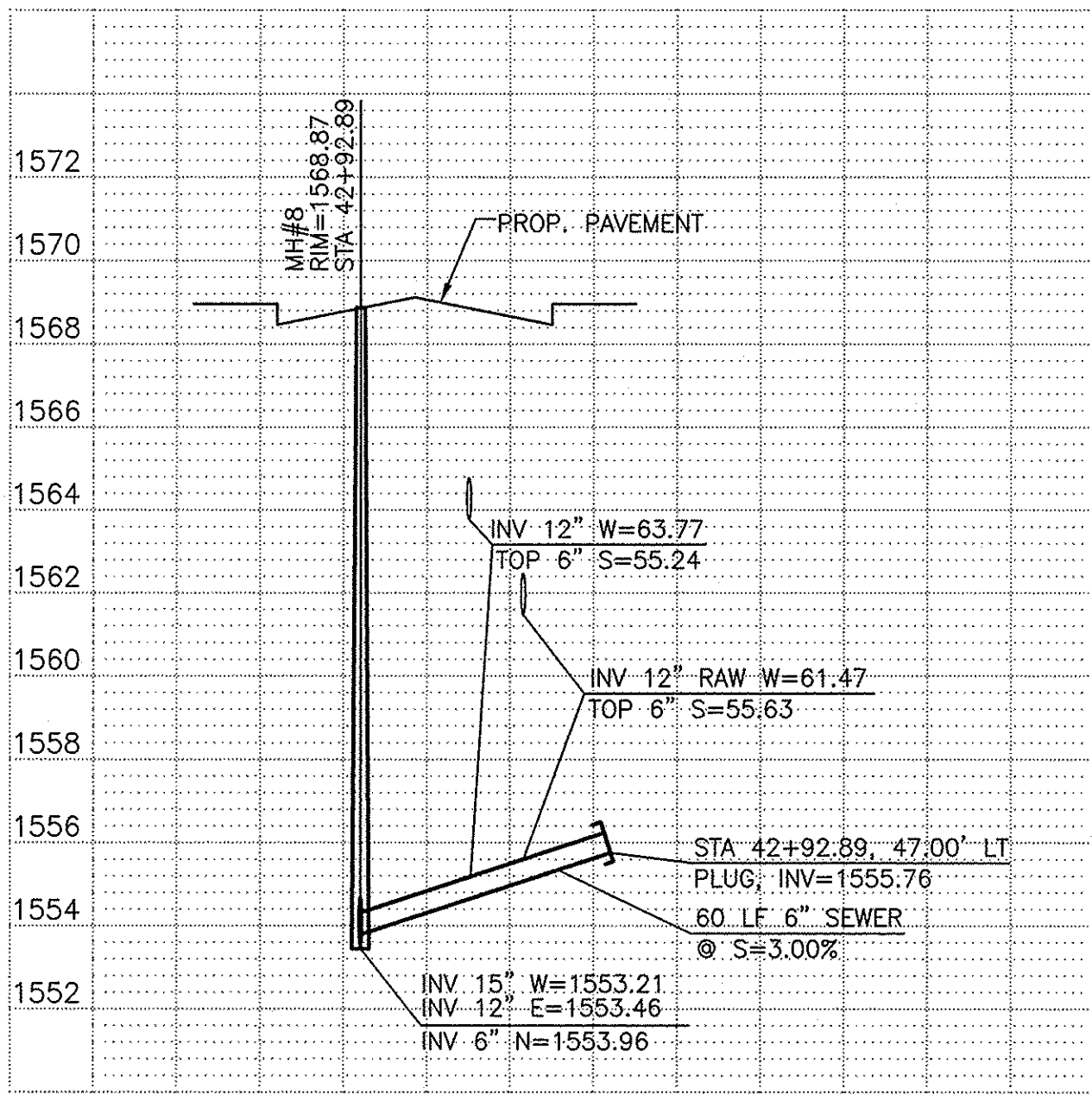
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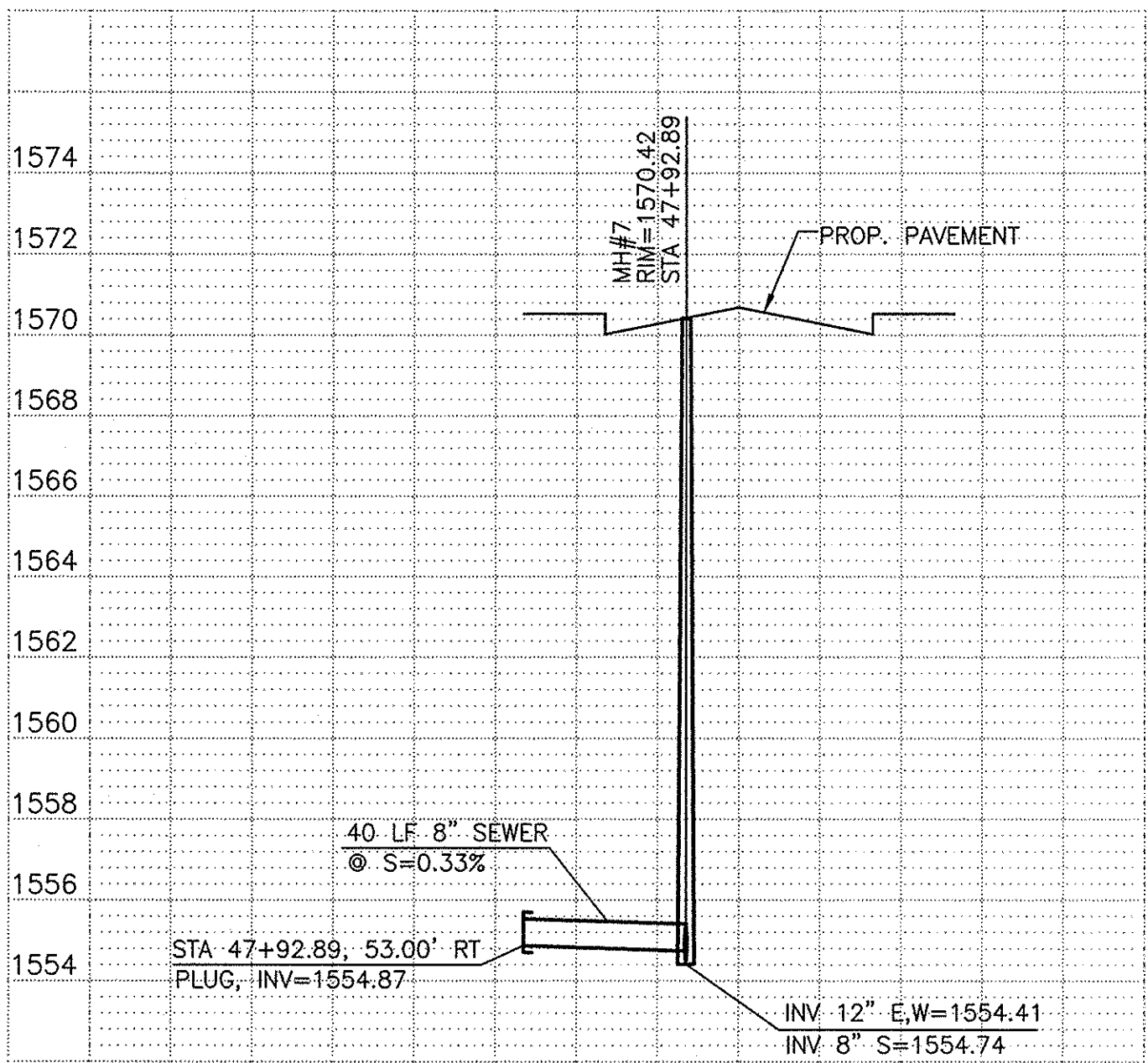
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SEE SHEET 6



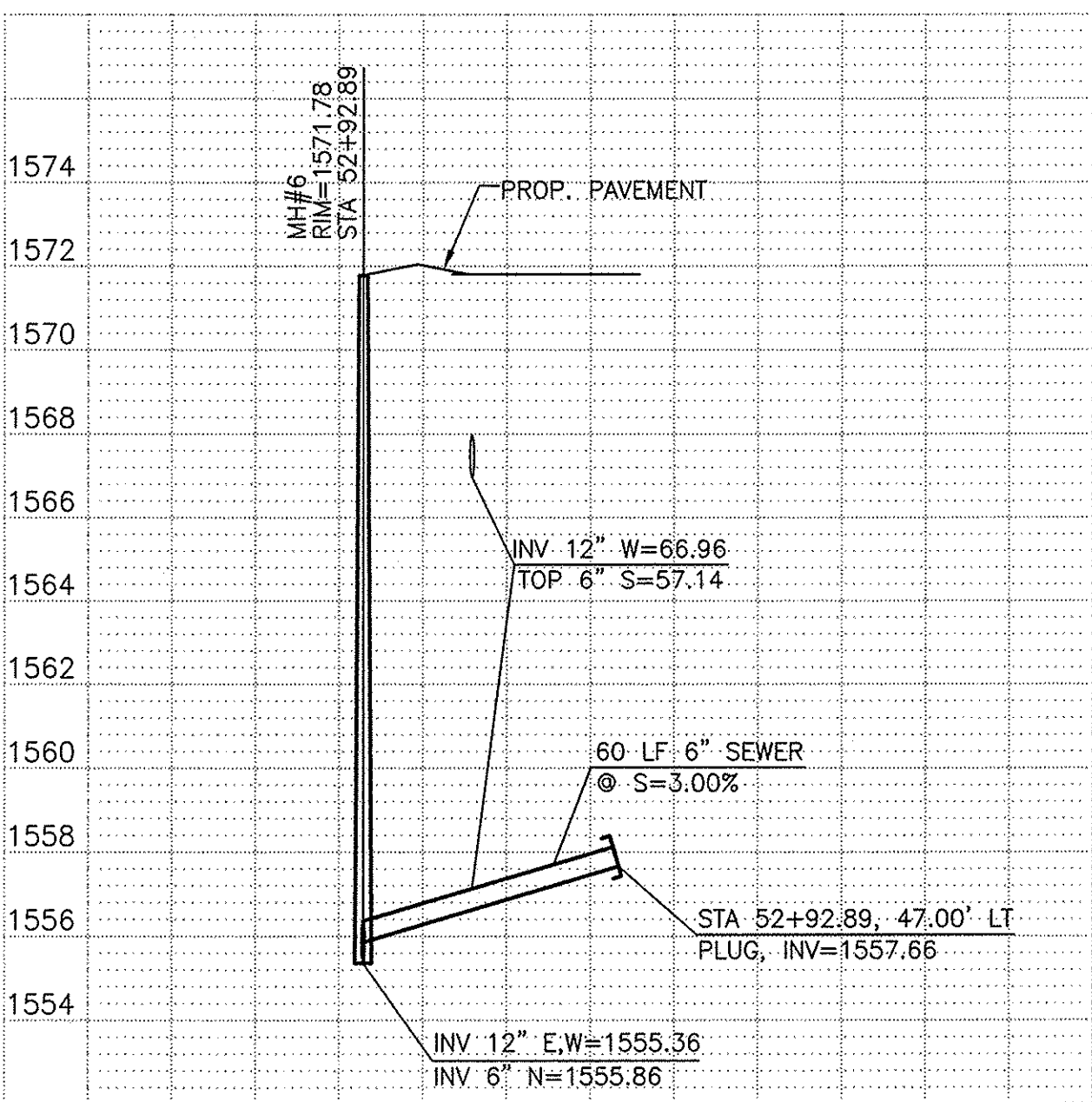
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SEE SHEET 7



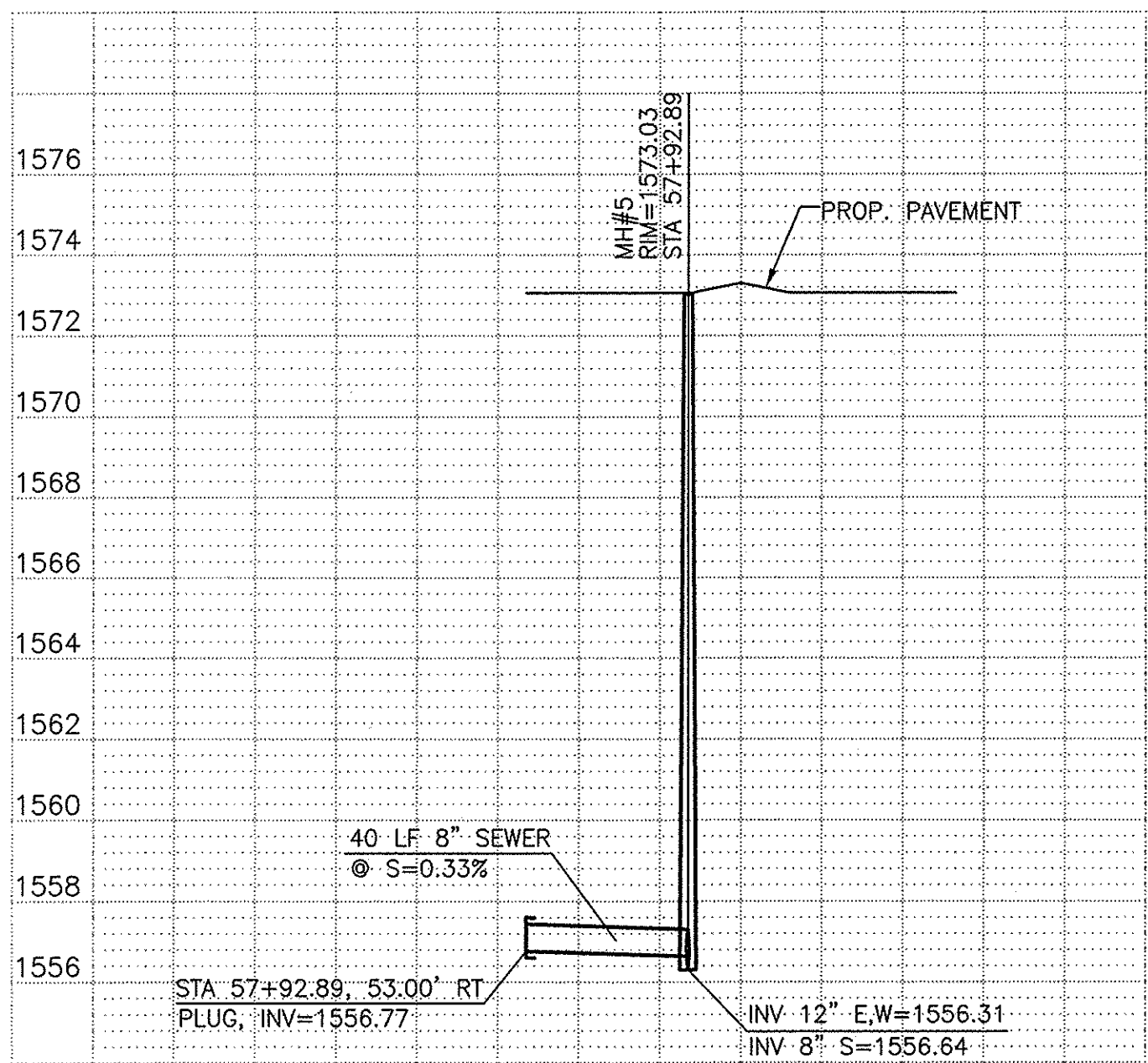
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SEE SHEET 8



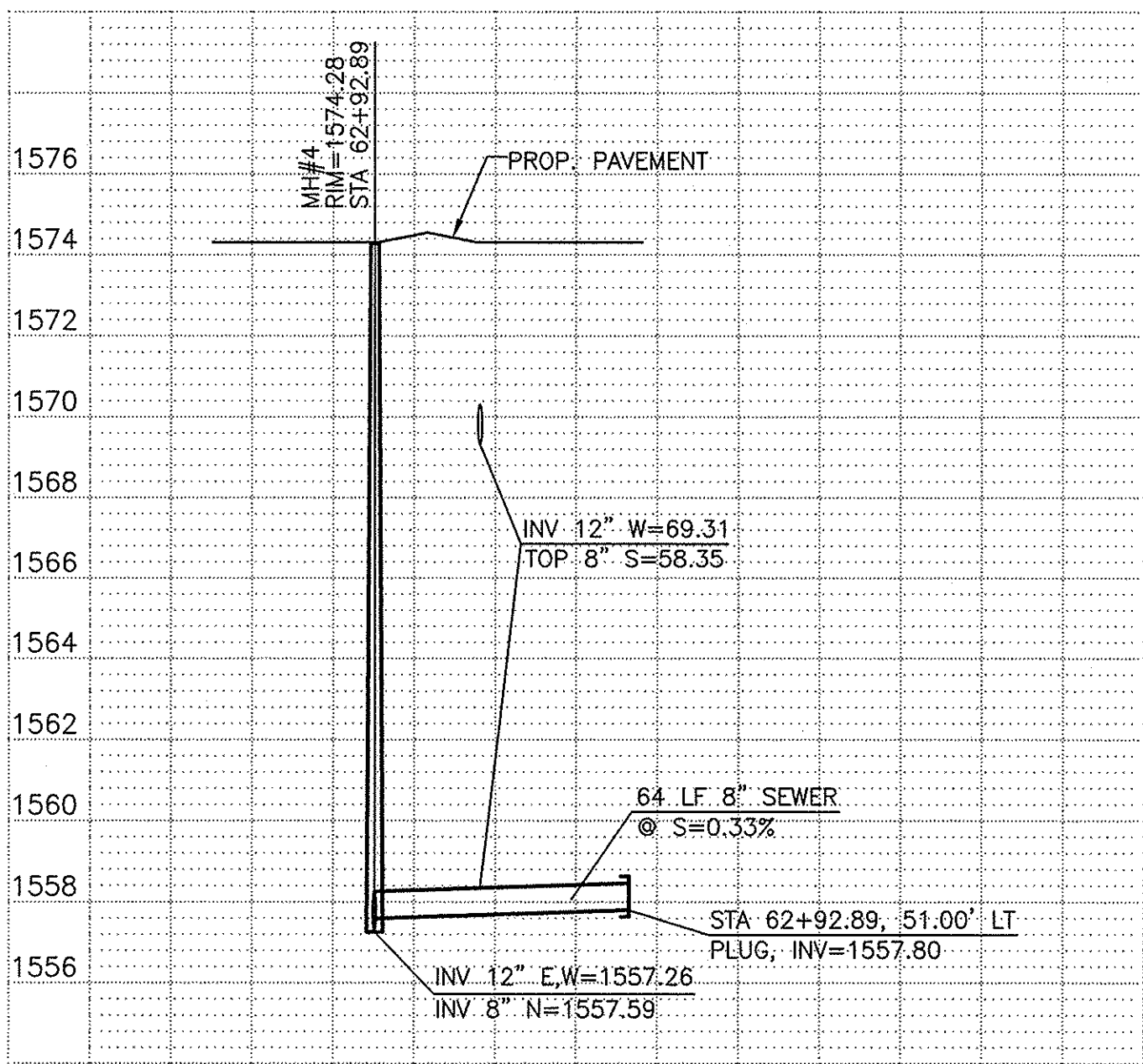
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SEE SHEET 8



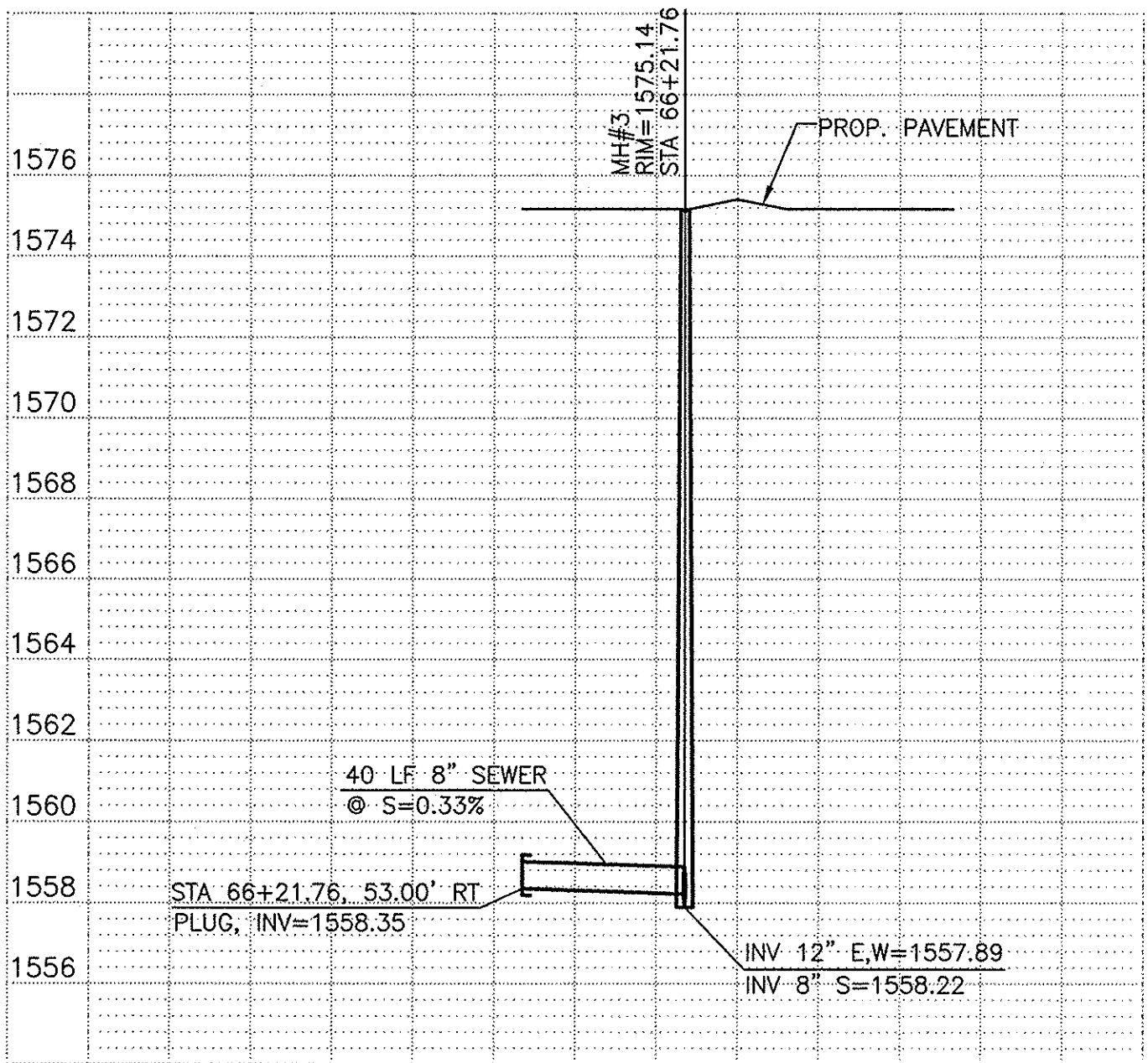
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SEE SHEET 8



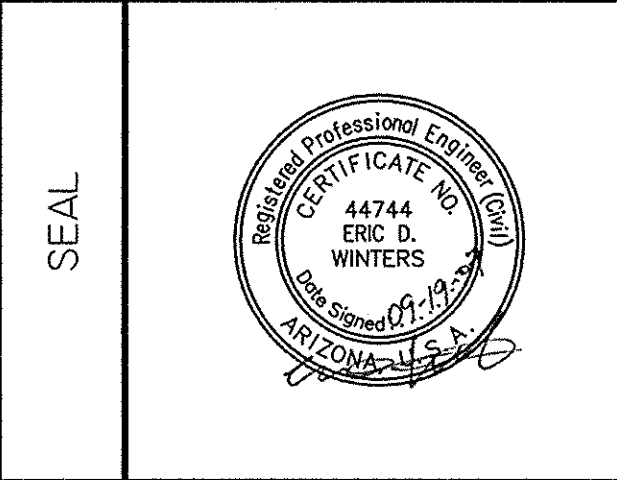
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STA 57+92.89 HORIZONTAL 1"=40' VERTICAL 1"=4' LOOKING WEST
SEE SHEET 9



⑩ SEWER PROFILE
STA 62+92.89 HORIZONTAL 1"=40' VERTICAL 1"=4' LOOKING WEST
SEE SHEET 9



⑪ SEWER PROFILE
STA 66+21.76 HORIZONTAL 1"=40' VERTICAL 1"=4' LOOKING WEST
SEE SHEET 10



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SHEET TITLE

DETAIL SHEET

DRAWN: MPZ	SHEET SIZE: 24x36
CHECKED: AMT	PLOT FACTOR: PAPER
APPROVED: EDW	DATE: 04-27-07
PROJECT: 07-013	SCALE: 1"=40'
CAD NAME: DT01	

500	8" PVC (SDR-35) SEWERLINE	250 LF	520	5' DIA SEWER MANHOLE MAG 420,422,424 W/ 30" DIAM COVER	3 EA	56	PLUG PIPE MAG 427	5 EA
500	15" PVC (SDR-35) SEWERLINE	929 LF		W/ MANHOLE LINING PROVIDED BY SAUEREISEN, SEWER SHIELD, OR		58	REMOVE SEWER PLUG AND CONNECT TO SEWER	NPI
				RAVEN LINING SYSTEMS		59	CONNECT SEWER INTO EXIST MANHOLE	NPI



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11-20-08 ADDITION OF STORM DRAIN EQUALIZER PIPE W/ NECESSARY
REMOVAL & REPLACEMENT AFTER ORIGINAL CONSTRUCTION

11-20-08 ADDITION OF PIPE CULVERTS WITH NECESSARY
REMOVAL & REPLACEMENT AFTER ORIGINAL CONSTRUCTION

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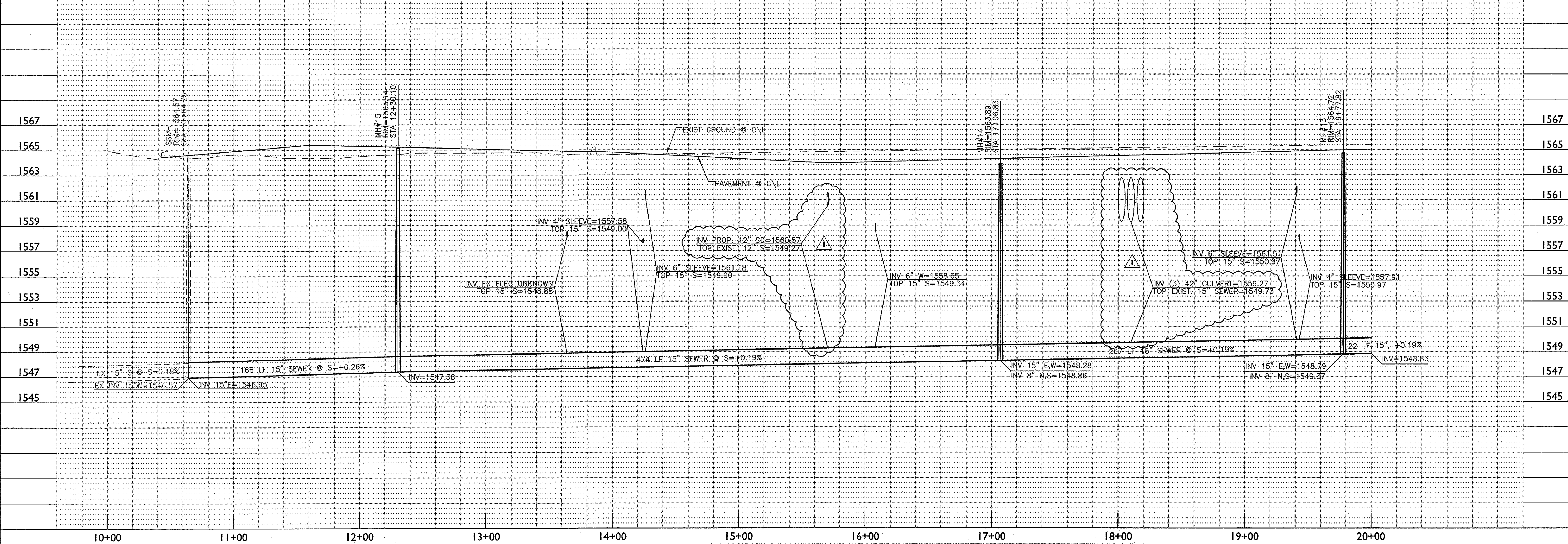
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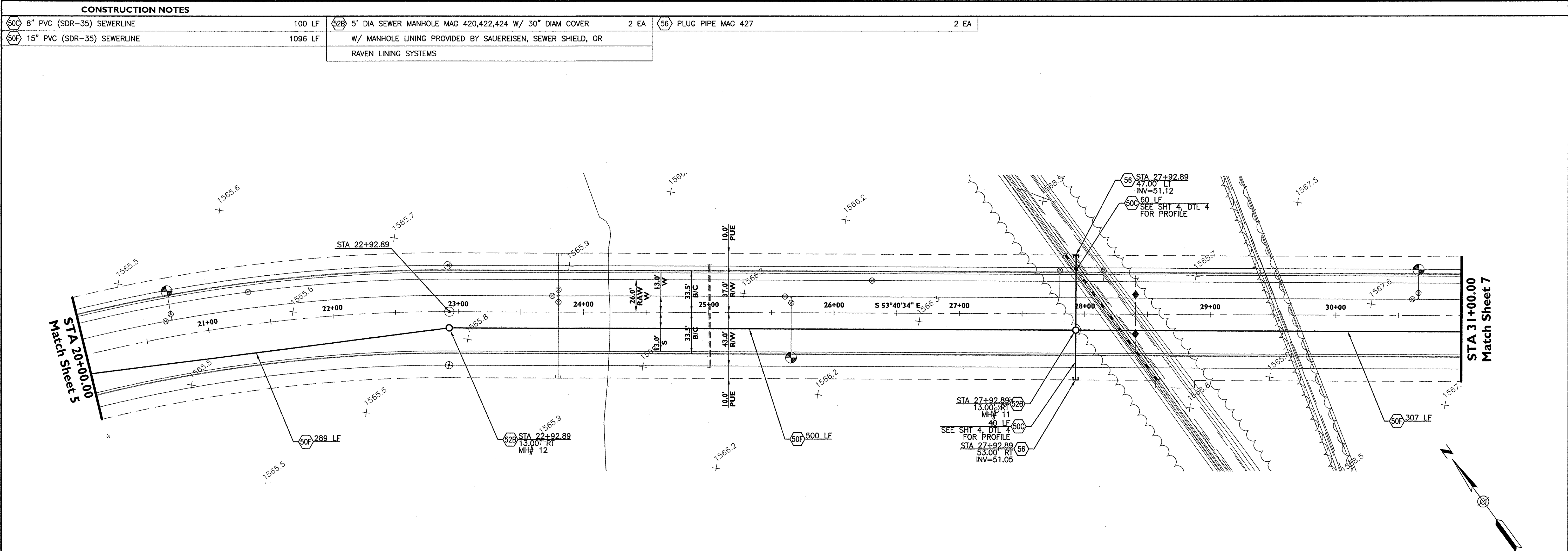
OFFSITE SEWER
PLANS

DRAWN: MPZ	
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PROJECT: 07-013	DATE: 04-27-07
CAD NAME: SP01	SCALE: 1"=40'

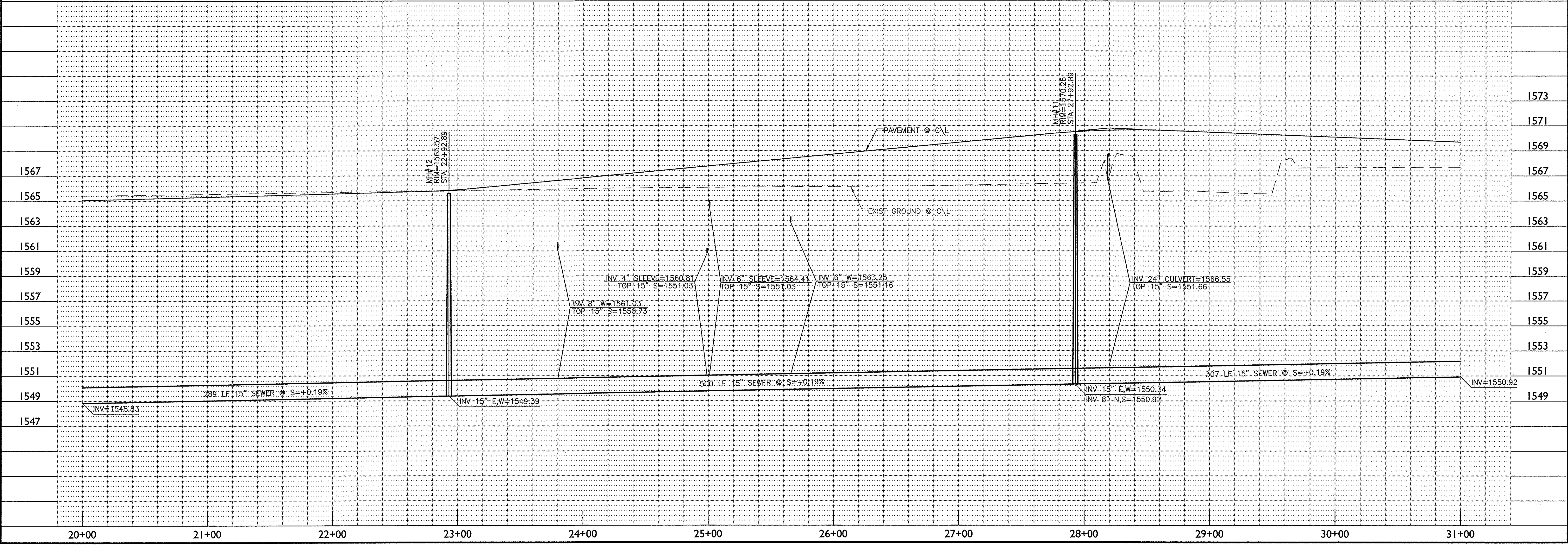
DRAWING NUMBER
07-013-SP01

5 of 10





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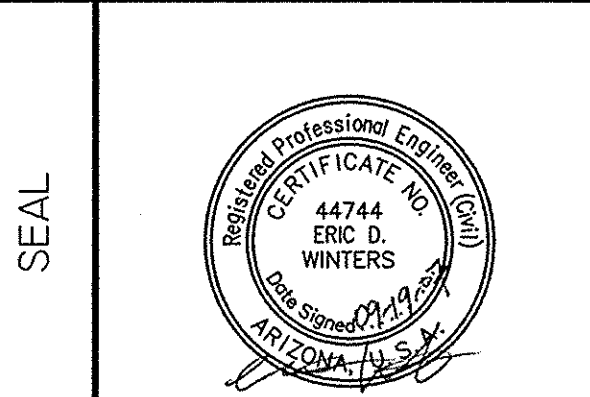
ELOY, ARIZONA

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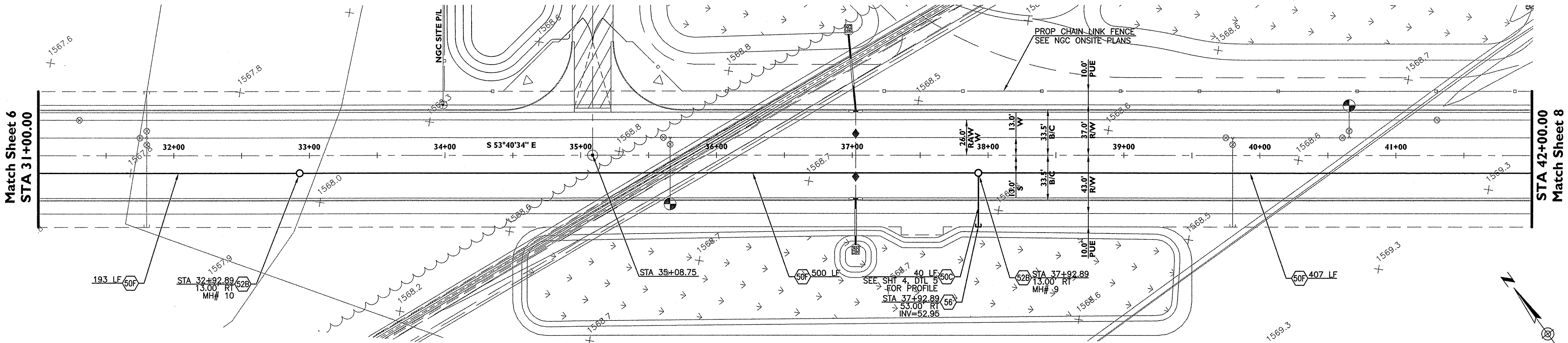
OFFSITE SEWER
PLANS

DRAWN: MPZ	SHEET SIZE: 24x36
CHECKED: AMT	PLOT FACTOR: PAPER
APPROVED: EDW	DATE: 04-27-07
PROJECT: 07-013	SCALE: 1"=40'
CAD NAME: SP02	

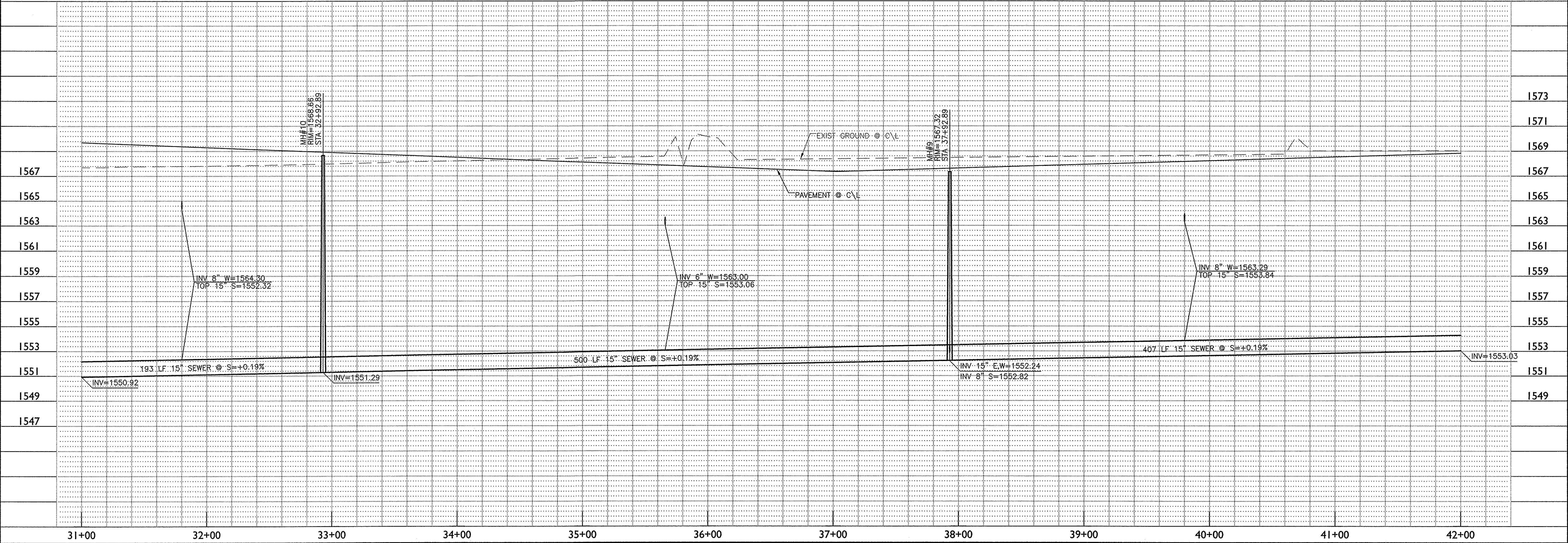
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07-013-SP02 6 of 10

CONSTRUCTION NOTES								
500	8" PVC (SDR-35) SEWERLINE	40 LF	528	5' DIA SEWER MANHOLE MAG 420,422,424 W/ 30" DIAM COVER	2 EA	56	PLUG PIPE MAG 427	1 EA
500	15" PVC (SDR-35) SEWERLINE	1100 LF	W/ MANHOLE LINING PROVIDED BY SAUEREISEN, SEWER SHIELD, OR RAVEN LINING SYSTEMS					



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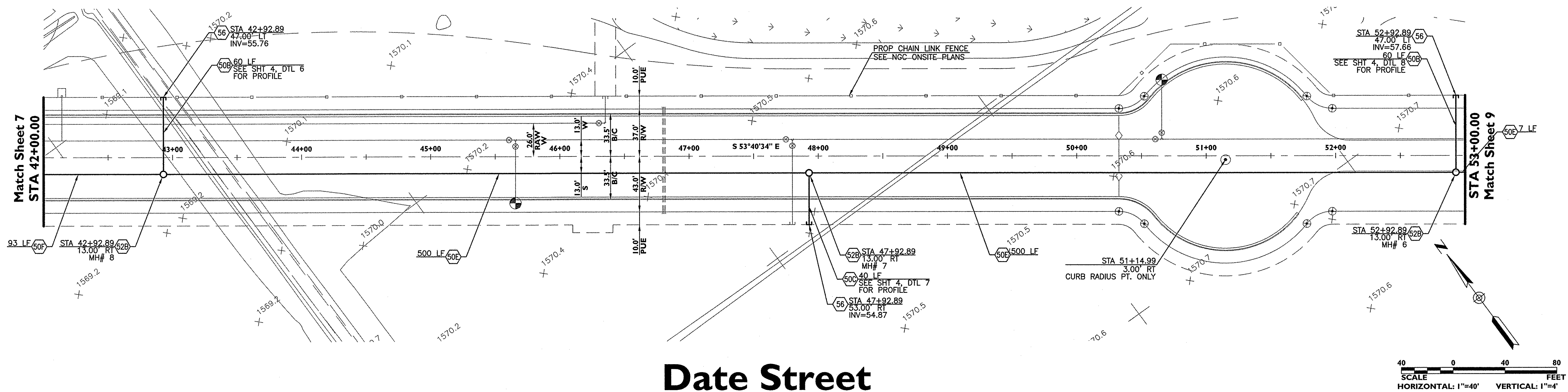
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SHEET TITLE
OFFSITE SEWER PLANS

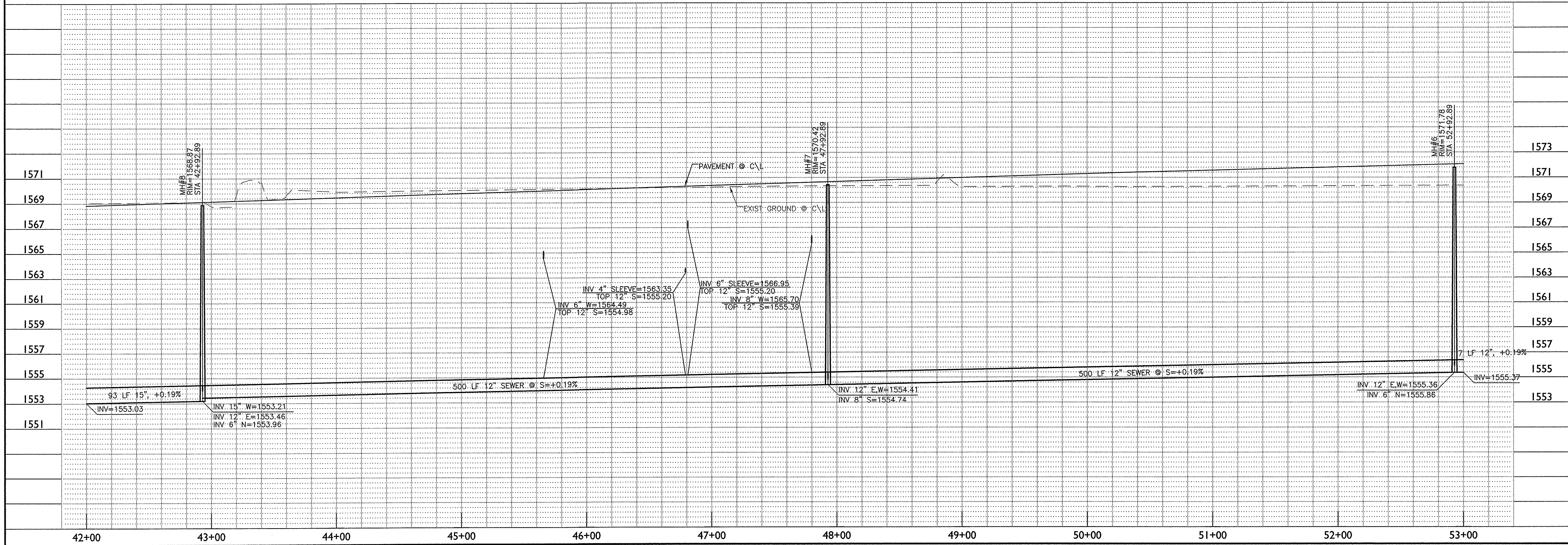
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CAD NAME: SP03	SCALE: 1"=40'	

DRAWING NUMBER
07-013-SP03 7 of 10

CONSTRUCTION NOTES					
50B	6" PVC (SDR-35) SEWERLINE	120 LF	52B	5' DIA SEWER MANHOLE MAG 420,422,424 W/ 30" DIAM COVER	3 EA
50C	8" PVC (SDR-35) SEWERLINE	40 LF	W/ MANHOLE LINING PROVIDED BY SAUERREISEN, SEWER SHIELD, OR		
50E	12" PVC (SDR-35) SEWERLINE	1007 LF	RAVEN LINING SYSTEMS		
50F	15" PVC (SDR-35) SEWERLINE	93 LF	56	PLUG PIPE MAG 427	3 EA



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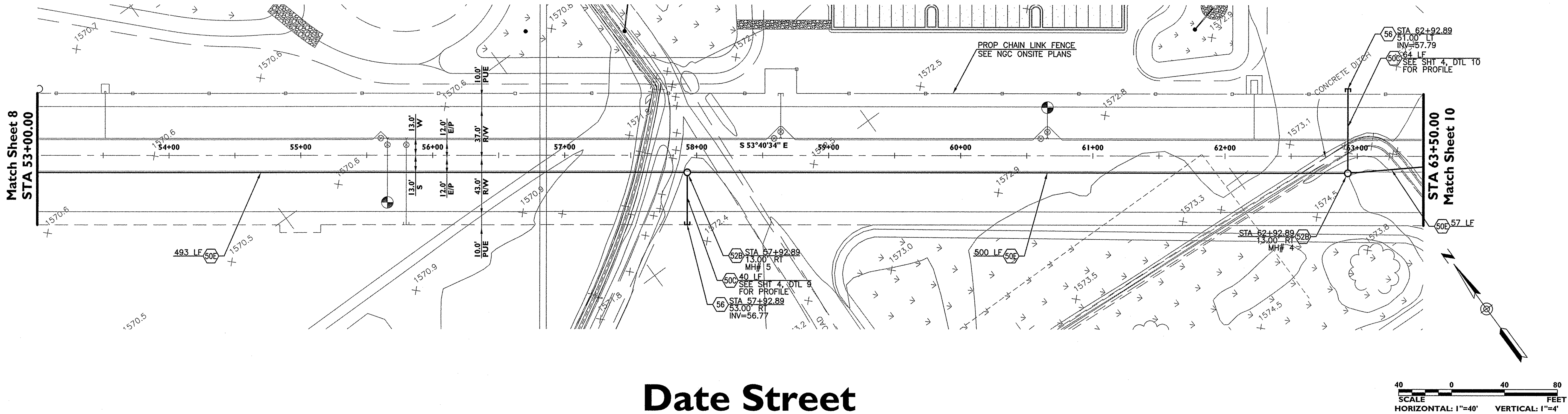
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OFFSITE SEWER
PLANS

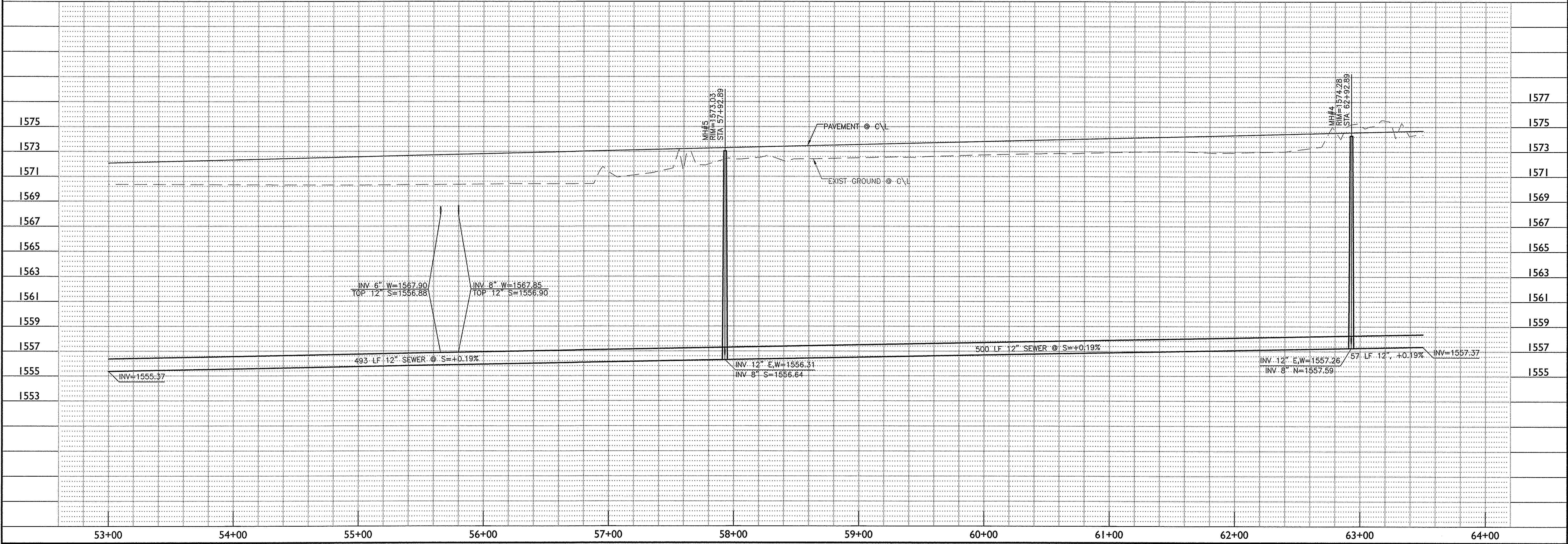
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PROJECT: 07-013	DATE: 04-27-07
CAD NAME: SP04	SCALE: 1"=40'

DRAWING NUMBER
07-013-SP04 8 of 10

CONSTRUCTION NOTES			
50C 8" PVC (SDR-35) SEWERLINE	104 LF	52B 5' DIA SEWER MANHOLE MAG 420,422,424 W/ 30" DIAM COVER	2 EA
50E 12" PVC (SDR-35) SEWERLINE	1050 LF	W/ MANHOLE LINING PROVIDED BY SAUERISEN, SEWER SHIELD, OR RAVEN LINING SYSTEMS	
		56 PLUG PIPE MAG 427	2 EA



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Professional Engineer
44744
ERIC D. WINTERS
Date: 08/19/2007
ARIZONA

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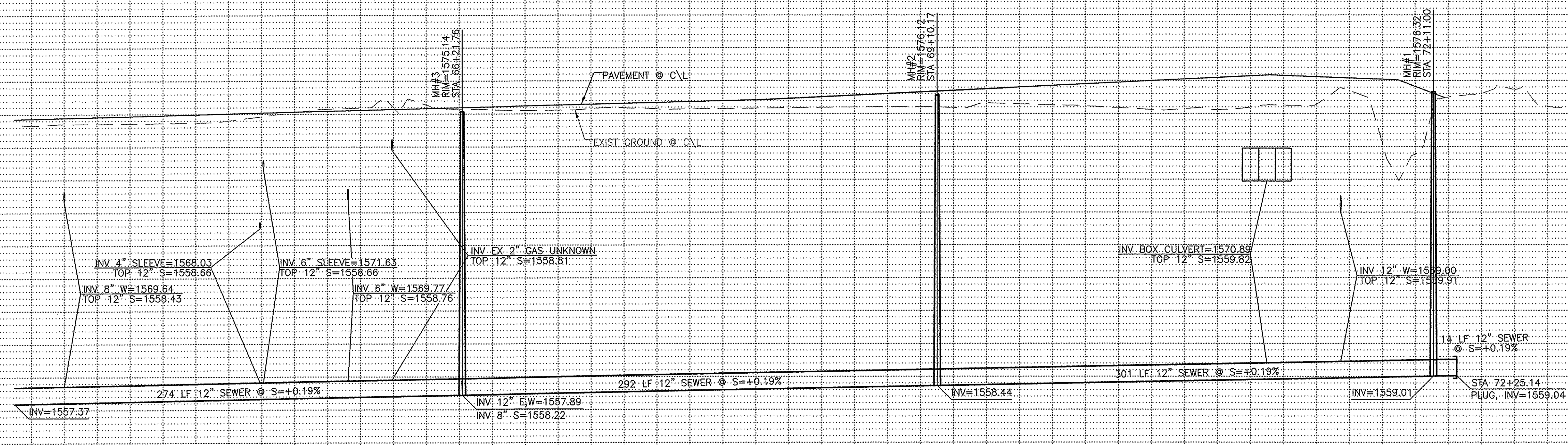
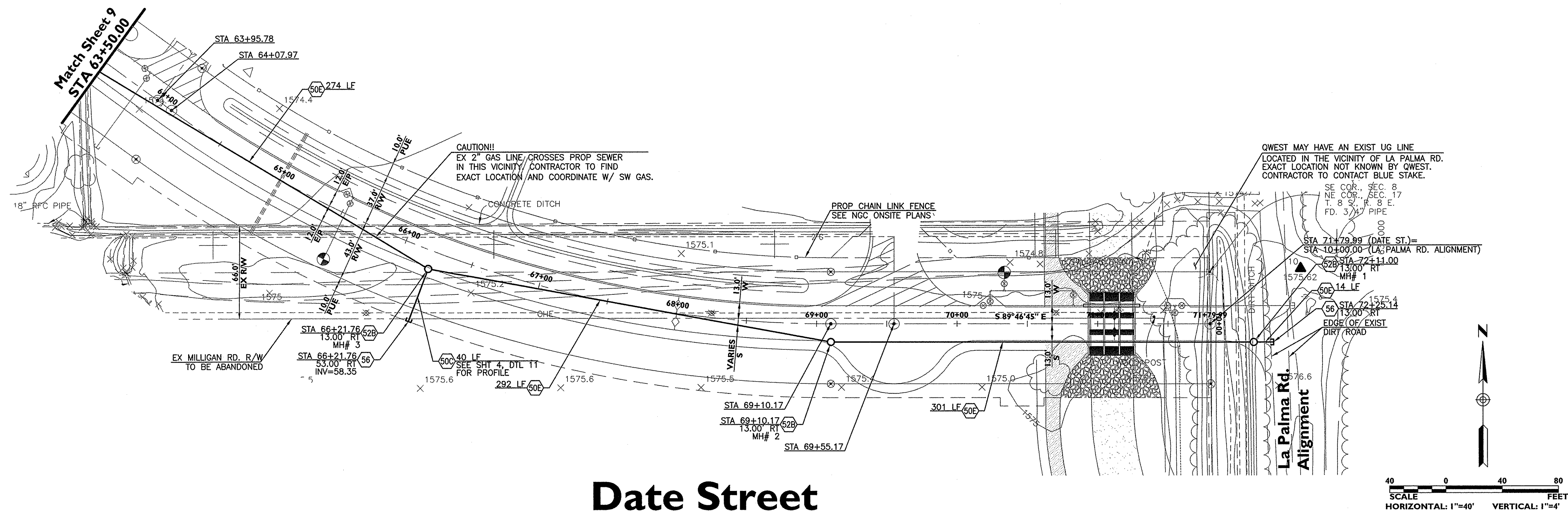
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OFFSITE SEWER PLANS

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APPROVED: EDW	DATE: 04-27-07
PROJECT: 07-013	SCALE: 1"=40'
CAD NAME: SP05	

DRAWING NUMBER
07-013-SP05

9 of 10

CONSTRUCTION NOTES									
50C	8" PVC (SDR-35) SEWERLINE	40 LF	52B	5' DIA SEWER MANHOLE MAG 420,422,424 W/ 30" DIAM COVER	3 EA	56	PLUG PIPE MAG 427		2 EA
50E	12" PVC (SDR-35) SEWERLINE	881 LF	W/ MANHOLE LINING PROVIDED BY SAUERREISEN, SEWER SHIELD, OR						
			RAVEN LINING SYSTEMS						



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SHEET TITLE

OFFSITE SEWER
PLANS

DRAWN: MPZ	
CHECKED: AMT	SHEET SIZE: 24x36
APPROVED: EDW	PLOT FACTOR: PAPER
PROJECT: 07-013	DATE: 04-27-07
CAD NAME: SP06	SCALE: 1"=40'

DRAWING NUMBER
07-013-SP06 10 of 10