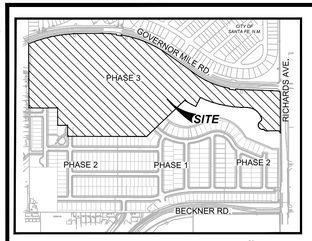
DHI ENGINEERING, LLC.

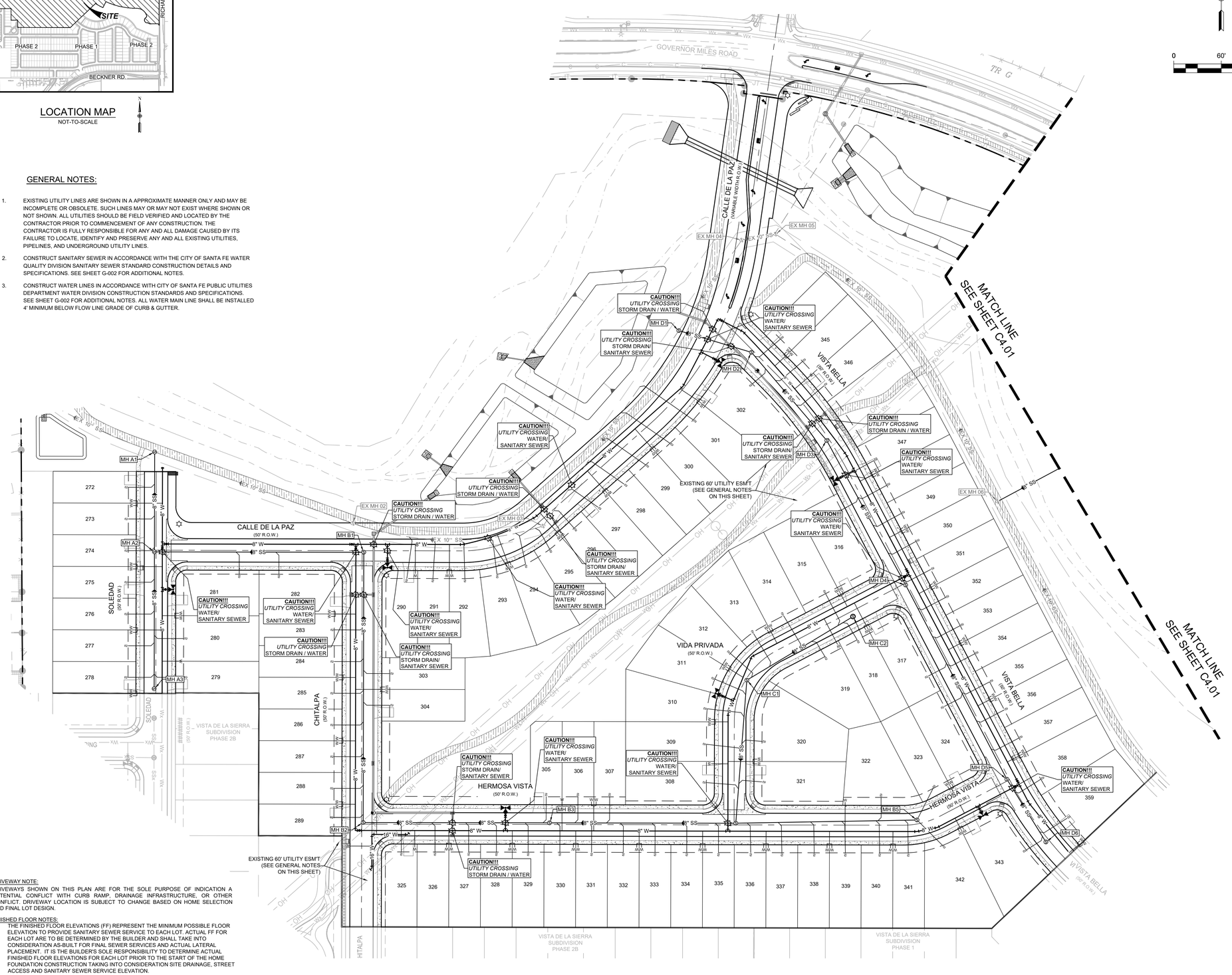


LOCATION MAP
NOT-TO-SCALE

N

GENERAL NOTES:

1. EXISTING UTILITY LINES ARE SHOWN IN A APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
2. CONSTRUCT SANITARY SEWER IN ACCORDANCE WITH THE CITY OF SANTA FE WATER QUALITY DIVISION SANITARY SEWER STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. SEE SHEET G-002 FOR ADDITIONAL NOTES.
3. CONSTRUCT WATER LINES IN ACCORDANCE WITH CITY OF SANTA FE PUBLIC UTILITIES DEPARTMENT WATER DIVISION CONSTRUCTION STANDARDS AND SPECIFICATIONS. SEE SHEET G-002 FOR ADDITIONAL NOTES. ALL WATER MAIN LINE SHALL BE INSTALLED 4' MINIMUM BELOW FLOW LINE GRADE OF CURB & GUTTER.



DRIVEWAY NOTE:
DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATION A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

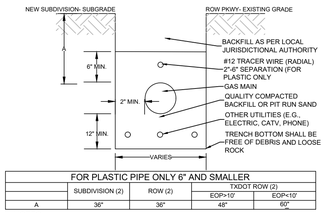
FINISHED FLOOR NOTES:
1. THE FINISHED FLOOR ELEVATIONS (FF) REPRESENT THE MINIMUM POSSIBLE FLOOR ELEVATION TO PROVIDE SANITARY SEWER SERVICE TO EACH LOT. ACTUAL FF FOR EACH LOT ARE TO BE DETERMINED BY THE BUILDER AND SHALL TAKE INTO CONSIDERATION AS-BUILT FOR FINAL SEWER SERVICES AND ACTUAL LATERAL PLACEMENT. IT IS THE BUILDER'S SOLE RESPONSIBILITY TO DETERMINE ACTUAL FINISHED FLOOR ELEVATIONS FOR EACH LOT PRIOR TO THE START OF THE HOME FOUNDATION/CONSTRUCTION TAKING INTO CONSIDERATION SITE DRAINAGE, STREET ACCESS AND SANITARY SEWER SERVICE ELEVATION.
2. THE MINIMUM SANITARY SEWER LATERAL GRADES WERE BASED UPON THE MINIMUM FINISHED FLOOR ELEVATIONS FOR THE LOTS LOCATED ON THE DOWNHILL SIDES OF THE PROPOSED ROADWAYS.

N

0 60' 120'

LEGEND (UTILITY)

	PROJECT LIMITS
	PROPOSED WATER
	PROPOSED SEWER
	EXISTING WATER
	EXISTING SEWER
S	PROPOSED MANHOLE
S	EXISTING MANHOLE
	FIRE HYDRANT
	PROPOSED WYE & LATERAL
	SINGLE WATER SERVICE
	DUEL WATER SERVICE
	STREET LIGHT
GETCTV	GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT
FF=XXXX.XX	FINISHED FLOOR ELEVATION FOR SEWER

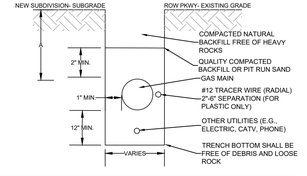


FOR PLASTIC PIPE ONLY 6" AND SMALLER				
	SUBDIVISION (2)	ROW (2)	TXDOT ROW (2)	
			EOP>10'	EOP<10'
A	36"	36"	48"	60"

NOTES:
1. JOINT TRENCH WITH OTHER UTILITIES (E.G., ELEC, CATV, & PHONE).
2. DEPTHS FOR ROAD CROSSING ARE MINIMUM AND SHOULD BE EVALUATED FOR CONFLICTS WITH OTHER UTILITIES.
3. TXDOT ROW DEPTHS SHOWN ARE TRENCH INSTALLATIONS FROM THE EDGE OF PAVEMENT (EOP) OF STATE ROAD
4. DIMENSIONS SHOWN FOR PROJECTS IN COSA AND COUNTY ROW SHOULD BE VERIFIED WITH JURISDICTIONAL ENTITY.
5. APPROVED EXCEPTIONS FOR DEPTH REQUIREMENTS MUST BE MADE BY A SUPERVISOR AND BE IN ACCORDANCE WITH RRC REGULATIONS & O&M PROCEDURES. (MINIMUM 2' IF COVER)

TRENCHING AND BACKFILL DETAIL OF PLASTIC GAS MAIN CONSTRUCTION

NOT TO SCALE



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			EOP>10'	EOP<10'
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NOTES:
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5. SUBDIVISION- INSTALLATION FOR SERVICES FOR NEW SUBDIVISIONS.

RESIDENTIAL SERVICE JOINT TRENCH & BACKFILL

NOT TO SCALE

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN, GEOTECHNICAL, SAFETY, EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE WITHIN THE PROJECT'S WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEM. PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS.SPECIFICALLY, CONTRACTOR AND CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO - WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L WEYNAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 877-1800 (210) 877-1801
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

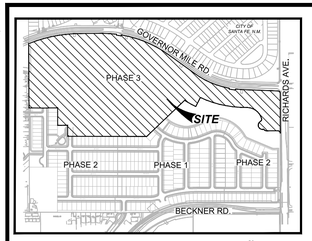
OVERALL UTILITY PLAN

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C4.00

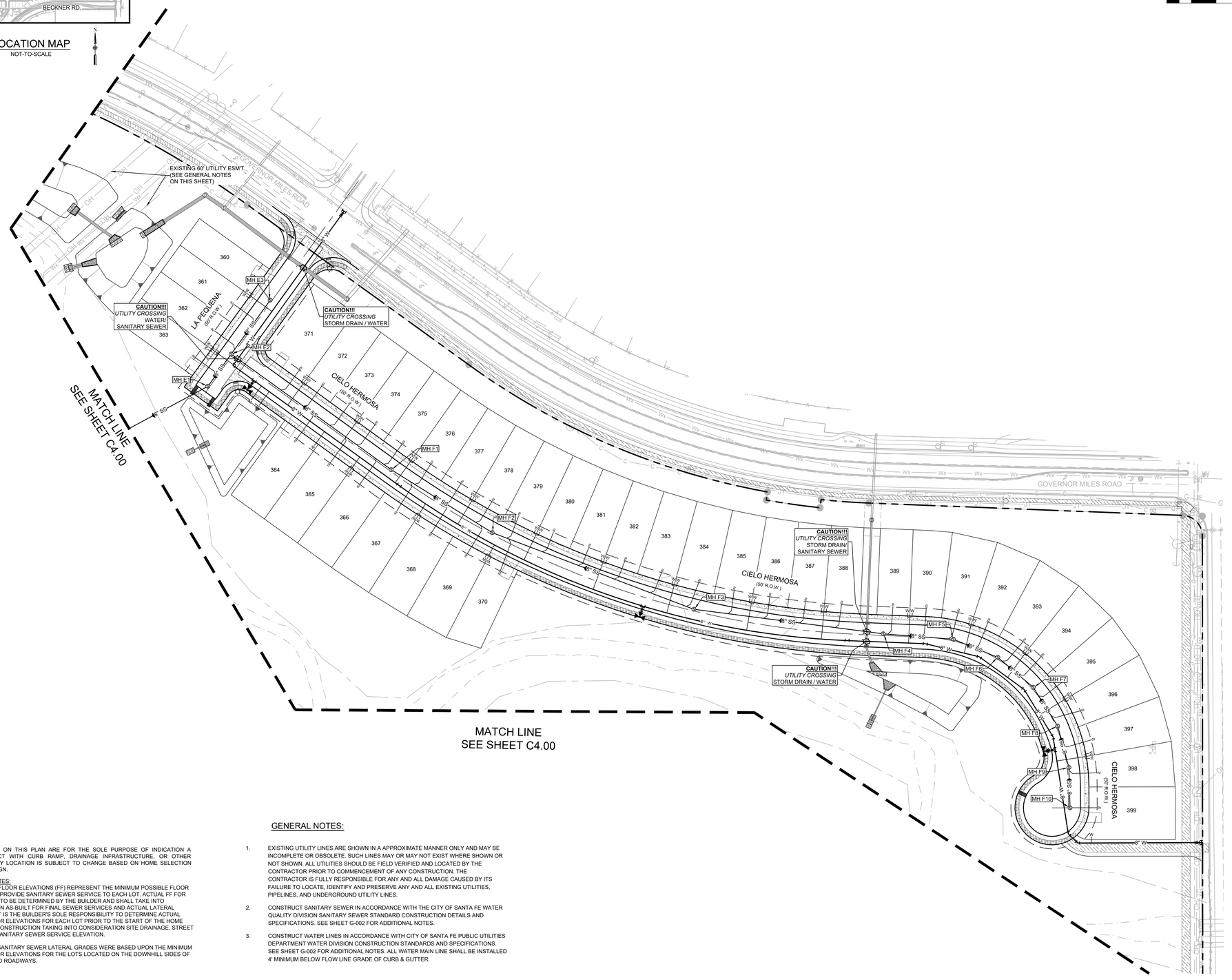
THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. REFER ONLY ON FINAL HARD COPY MATERIAL BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL.

Date: May 14, 2025, 7:29pm User: ID: JWSimon File: L:\PROJECT\05004 (Vista De La Sierra – Santa Fe)\900 – Design\920 – Sheets\C4.00 OVERALL UTILITY PLAN.dwg

DHI ENGINEERING, LLC.



LOCATION MAP
NOT-TO-SCALE

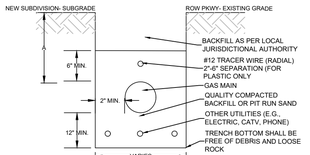


N

0 60' 120'

LEGEND (UTILITY)

	PROJECT LIMITS
	PROPOSED WATER
	PROPOSED SEWER
	EXISTING WATER
	EXISTING SEWER
S	PROPOSED MANHOLE
S	EXISTING MANHOLE
	FIRE HYDRANT
	PROPOSED WYE & LATERAL
	SINGLE WATER SERVICE
	DUEL WATER SERVICE
	STREET LIGHT
GETCTV	GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT
FF=XXXX.XX	FINISHED FLOOR ELEVATION FOR SEWER



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TRENCHING AND BACKFILL DETAIL OF PLASTIC GAS MAIN CONSTRUCTION

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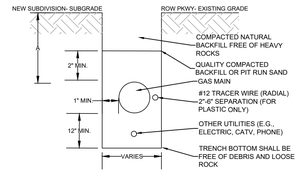

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REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYNAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 483-1005 (210) 483-1006
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

OVERALL UTILITY PLAN

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C4.01

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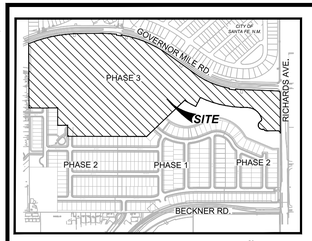
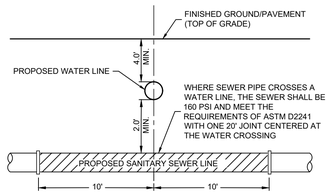
Date: May 14, 2025, 7:30am User ID: JeffSmith File: G:_PROJECTS\05004 (Vista De La Sierra – Santa Fe)\2600 – Design\020 – Sheets\C4.00 OVERALL UTILITY PLAN.dwg



LOCATION MAP
NOT-TO-SCALE



TYPICAL SANITARY SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE

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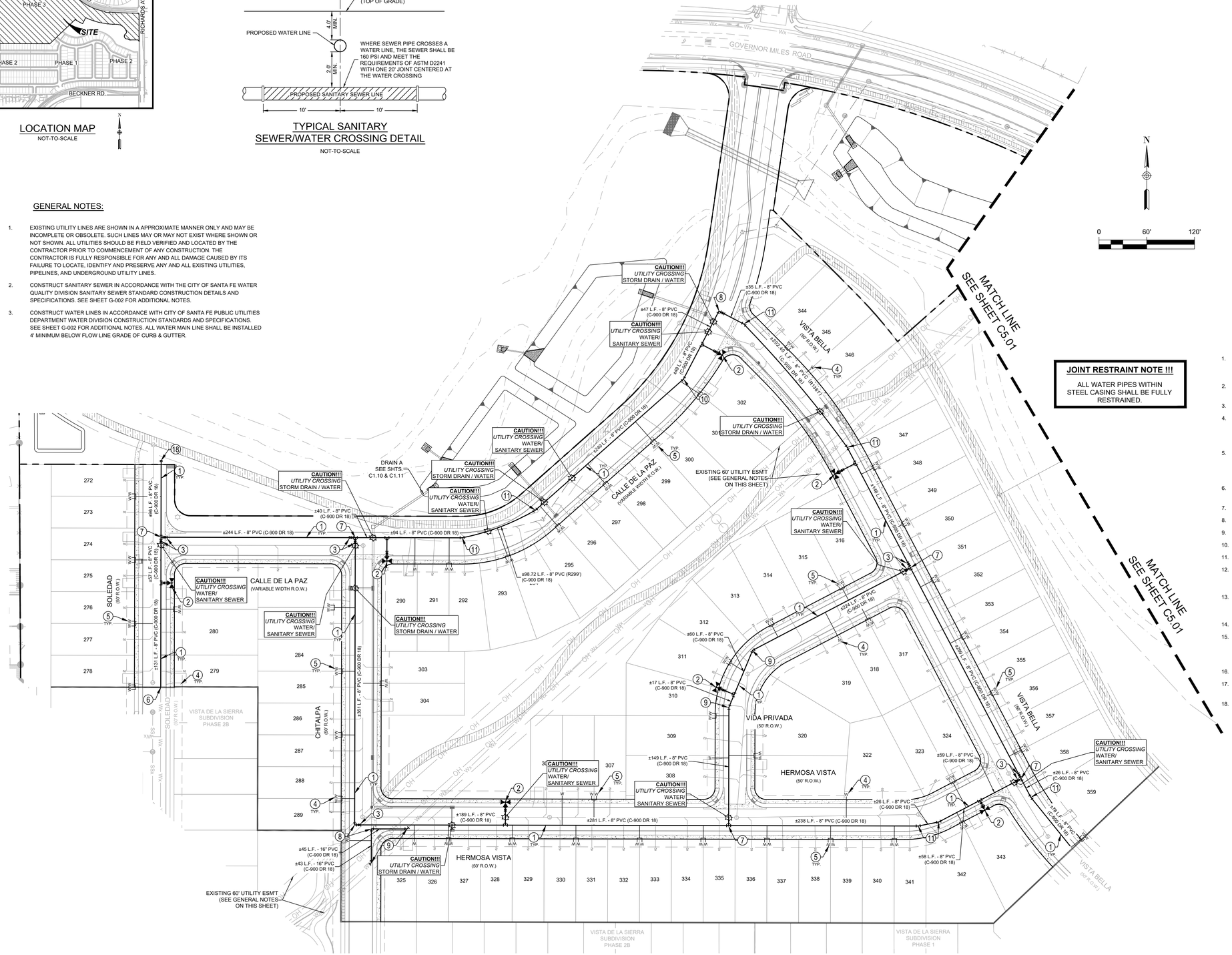

JOINT RESTRAINT NOTE !!!

ALL WATER PIPES WITHIN STEEL CASING SHALL BE FULLY RESTRAINED.

LEGEND (WATER DISTRIBUTION)

	PROJECT LIMITS
	PROPOSED WATER
	PROPOSED SEWER
	EXISTING WATER
	EXISTING SEWER
Ⓜ	MANHOLE
	FIRE HYDRANT
	PROPOSED WYE & LATERAL
	PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER
	PROPOSED 1" DUAL SERVICE WITH 5/8" METER
☼	STREET LIGHT
GETCTV	GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT
⊕6"	JOINT RESTRAINT

WATER KEYED NOTES:

1. INSTALL C-900 PVC WATER LINE PER SDCW CO. STANDARD DETAILS AND SPECIFICATIONS. 8" OR 12" PVC WATER LINE, SEE PLAN FOR SIZE. WATER MAIN SHALL BE INSTALL MINIMUM 4' BELOW FINISHED GRADE AT FLOW LINE OF CURB & GUTTER.
2. INSTALL FIRE HYDRANT AND VALVE PER SDCW CO. STANDARD DETAIL 07 & 08, SHEET WL-1.
3. INSTALL GATE VALVES PER SDCW CO. STANDARD DETAILS 08, SHEET WL-1.
4. INSTALL 2" WATER SERVICE LINE FOR 5/8" SINGLE SERVICE METER PER SDCW CO. STANDARD DETAIL 02, SHEET WL-1. INSTALL WATER SERVICE LINE AND BOX AT TERMINATION OF LINE. FUTURE CONSTRUCTION SHALL BE MADE BY THE SANGRE DE CRISTO WATER COMPANY IN THE CITY OF SANTA FE.
5. INSTALL 2" WATER SERVICE LINE FOR 5/8" DOUBLE SERVICE METER PER SDCW CO. STANDARD DETAIL 06, SHEET WL-1. INSTALL WATER SERVICE LINE AND BOX AT TERMINATION OF LINE. FUTURE CONSTRUCTION SHALL BE MADE BY THE SANGRE DE CRISTO WATER COMPANY IN THE CITY OF SANTA FE.
6. WATER LINE POINT OF CONNECTION, CONTRACTOR TO FIELD VERIFY EXISTING WL LOCATION AND ELEVATION.
7. INSTALL MJ TEE. RESTRAIN PER WATER DIVISION STANDARDS.
8. INSTALL 90° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
9. INSTALL 45° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
10. INSTALL 22.5° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
11. INSTALL 11.25° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
12. LOCATION IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY, SAW CUT NEAT. INSTALL NEW TEE WITH GATE VALVE IN NON-PRESSURED CONNECTION. RESTRAIN AND INSTALL FITTINGS PER MANUFACTURERS SPECIFICATIONS.
13. WATER DIVISION REQUIRES A PRESSURIZED CONNECTION WITH A FULL-CIRCLE STAINLESS STEEL SADDLE CONNECTION AND TAPPING GATE VALVE. LOCATION IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND SAW CUT NEAT.
14. INSTALL FLUSH HYDRANT AND VALVE PER SDCW CO. STANDARD DETAIL 11, SHEET WL-1.
15. INSTALL LANDSCAPE METER PER SIZE ON LANDSCAPE PLANS AND PER SDCW CO. STANDARD DETAILS 03 AND 04, SHEET WL-1. INSTALL WATER SERVICE LINE AND BOX AT TERMINATION OF LINE. FUTURE CONSTRUCTION SHALL BE MADE BY THE SANGRE DE CRISTO WATER COMPANY IN THE CITY OF SANTA FE.
16. INSTALL REDUCER FITTING. RESTRAIN PER WATER DIVISION STANDARDS.
17. INSTALL TEMPORARY FLUSH HYDRANT PER WATER DIVISION STANDARDS, APPROXIMATELY 10' PAST THE PHASE BOUNDARY. REMOVE IN NEXT PHASE.
18. INSTALL CAP ON WATER MAIN 20' PAST PHASE BOUNDARY WHERE SPECIFIED ON PLANS.

TRENCH EXCAVATION PROTECTION

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REV	DATE	DESCRIPTION

CASE/PERMIT # S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYNAND NEW MEXICO 29907 PROFESSIONAL ENGINEER

Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 479-8888 www.dhi.com
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

WATER DISTRIBUTION PLAN

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C5.00

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Date: May 14, 2025, 7:37pm User ID: JeffSmith File: E:_PROJECTS\05004 (Vista De La Sierra - Santa Fe)\900 – Design\120 – Sheets\C5.00 WATER DISTRIBUTION PLAN.dwg

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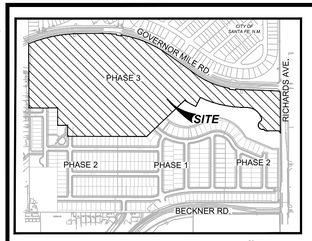
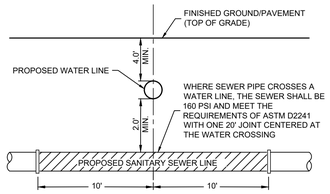
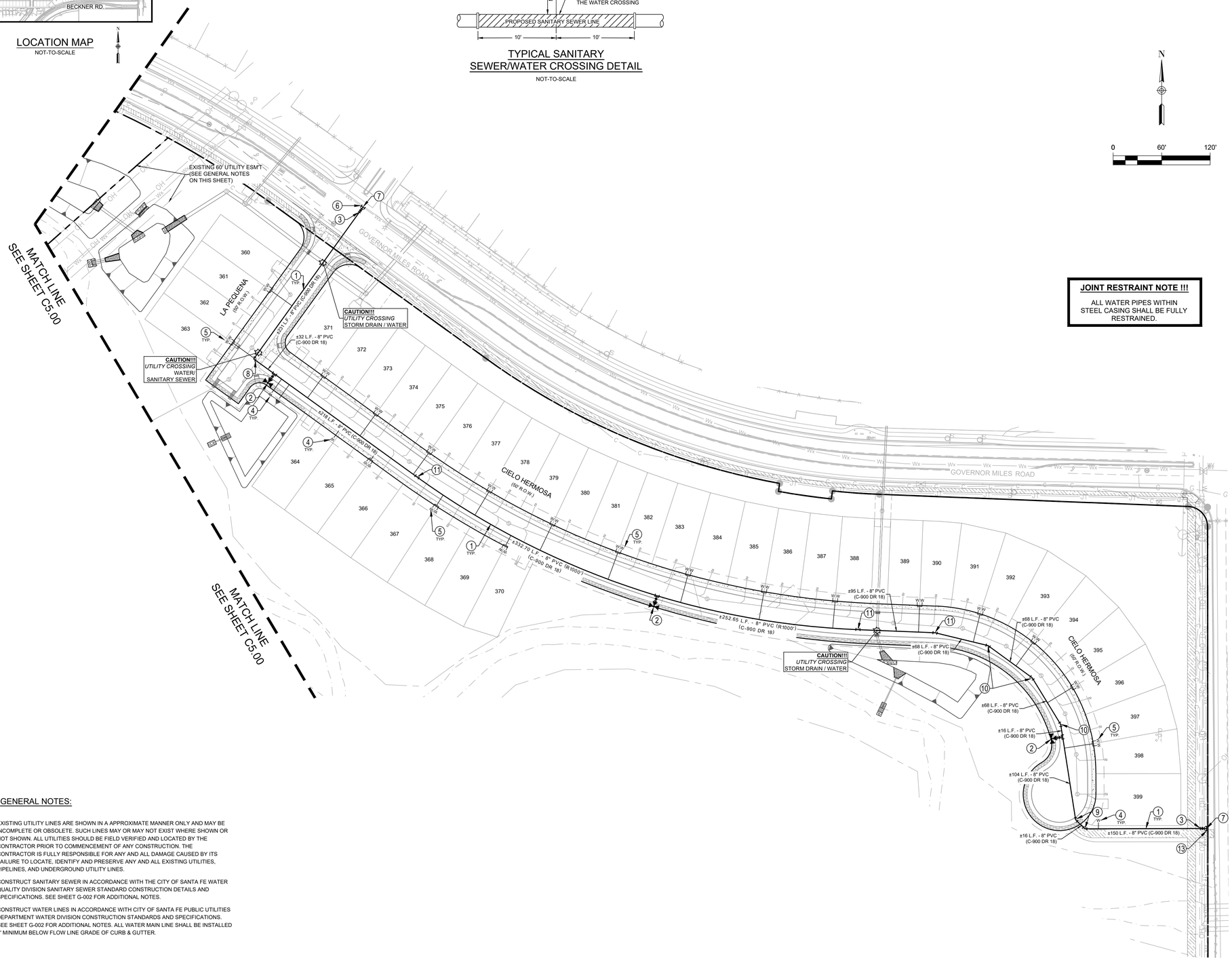
DHI ENGINEERING, LLC.



LOCATION MAP
NOT-TO-SCALE



TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE



LEGEND (WATER DISTRIBUTION)	
	PROJECT LIMITS
	PROPOSED WATER
	PROPOSED SEWER
	EXISTING WATER
	EXISTING SEWER
S	MANHOLE
	FIRE HYDRANT
	PROPOSED WYE & LATERAL
	PROPOSED 3/4" SINGLE SERVICE WITH 5/8" METER
	PROPOSED 1" DUAL SERVICE WITH 5/8" METER
	STREET LIGHT
GETCTV	GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT
6'	JOINT RESTRAINT

JOINT RESTRAINT NOTE !!!

ALL WATER PIPES WITHIN STEEL CASING SHALL BE FULLY RESTRAINED.

GENERAL NOTES:

1. EXISTING UTILITY LINES ARE SHOWN IN A APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
2. CONSTRUCT SANITARY SEWER IN ACCORDANCE WITH THE CITY OF SANTA FE WATER QUALITY DIVISION SANITARY SEWER STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS. SEE SHEET G-002 FOR ADDITIONAL NOTES.
3. CONSTRUCT WATER LINES IN ACCORDANCE WITH CITY OF SANTA FE PUBLIC UTILITIES DEPARTMENT WATER DIVISION CONSTRUCTION STANDARDS AND SPECIFICATIONS. SEE SHEET G-002 FOR ADDITIONAL NOTES. ALL WATER MAIN LINE SHALL BE INSTALLED 4' MINIMUM BELOW FLOW LINE GRADE OF CURB & GUTTER.

WATER KEYED NOTES:

1. INSTALL C-900 PVC WATER LINE PER SDCW CO. STANDARD DETAILS AND SPECIFICATIONS. 8" OR 12" PVC WATER LINE, SEE PLAN FOR SIZE. WATER MAIN SHALL BE INSTALL MINIMUM 4' BELOW FINISHED GRADE AT FLOW LINE OF CURB & GUTTER.
2. INSTALL FIRE HYDRANT AND VALVE PER SDCW CO. STANDARD DETAIL 07 & 08, SHEET WL-1.
3. INSTALL GATE VALVES PER SDCW CO. STANDARD DETAILS 08, SHEET WL-1.
4. INSTALL 2" WATER SERVICE LINE FOR 5/8" SINGLE SERVICE METER PER SDCW CO. STANDARD DETAIL 02, SHEET WL-1. INSTALL WATER SERVICE LINE AND BOX AT TERMINATION OF LINE. FUTURE CONSTRUCTION SHALL BE MADE BY THE SANGRE DE CRISTO WATER COMPANY IN THE CITY OF SANTA FE.
5. INSTALL 2" WATER SERVICE LINE FOR 5/8" DOUBLE SERVICE METER PER SDCW CO. STANDARD DETAIL 06, SHEET WL-1. INSTALL WATER SERVICE LINE AND BOX AT TERMINATION OF LINE. FUTURE CONSTRUCTION SHALL BE MADE BY THE SANGRE DE CRISTO WATER COMPANY IN THE CITY OF SANTA FE.
6. WATER LINE POINT OF CONNECTION, CONTRACTOR TO FIELD VERIFY EXISTING WL LOCATION AND ELEVATION.
7. INSTALL MJ TEE. RESTRAIN PER WATER DIVISION STANDARDS.
8. INSTALL 90° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
9. INSTALL 45° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
10. INSTALL 22.5° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
11. INSTALL 11.25° MJ BEND. RESTRAIN PER WATER DIVISION STANDARDS.
12. LOCATION IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY. SAW CUT NEAT. INSTALL NEW TEE WITH GATE VALVE IN NON-PRESSURED CONNECTION. RESTRAIN AND INSTALL FITTINGS PER MANUFACTURERS SPECIFICATIONS.
13. WATER DIVISION REQUIRES A PRESSURIZED CONNECTION WITH A FULL-CIRCLE STAINLESS STEEL SADDLE CONNECTION AND TAPPING GATE VALVE. LOCATION IS APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND SAW CUT NEAT.
14. INSTALL FLUSH HYDRANT AND VALVE PER SDCW CO. STANDARD DETAIL 11, SHEET WL-1.
15. INSTALL LANDSCAPE METER PER SIZE ON LANDSCAPE PLANS AND PER SDCW CO. STANDARD DETAILS 03 AND 04, SHEET WL-1. INSTALL WATER SERVICE LINE AND BOX AT TERMINATION OF LINE. FUTURE CONSTRUCTION SHALL BE MADE BY THE SANGRE DE CRISTO WATER COMPANY IN THE CITY OF SANTA FE.
16. INSTALL REDUCER FITTING. RESTRAIN PER WATER DIVISION STANDARDS.
17. INSTALL TEMPORARY FLUSH HYDRANT PER WATER DIVISION STANDARDS, APPROXIMATELY 10' PAST THE PHASE BOUNDARY. REMOVE IN NEXT PHASE.
18. INSTALL CAP ON WATER MAIN 20' PAST PHASE BOUNDARY WHERE SPECIFIED ON PLANS.

TRENCH EXCAVATION PROTECTION

CONTRACTOR AND CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN, GEOTECHNICAL, SAFETY, EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE WITHIN THE PROJECT'S WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEM. PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS, AND PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS.SPECIFICALLY, CONTRACTOR AND CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CAUTION!!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO : WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

REV	DATE	DESCRIPTION

CASE/PERMIT # S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYMAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weymand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 496-8900 www.dhi-tx.com
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

WATER DISTRIBUTION PLAN

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C5.01

Date: May 14, 2025, 7:30am User ID: JWSmith File: E:_PROJECTS\05004 (Vista de La Sierra – Santa Fe)\900 – Design\920 – Sheets\C5.00 WATER DISTRIBUTION PLAN.dwg

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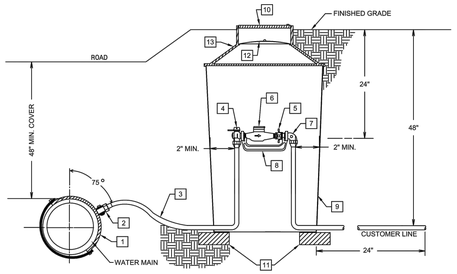


NOTE: SEE SERVICE LOCATION DETAIL FOR PLACEMENT DIMENSIONS AND DIRECTIONS.

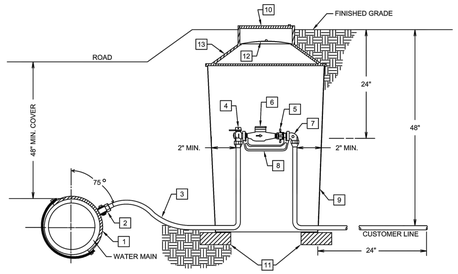
ITEM

1. 3/4" SERVICE SADDLE
2. 3/4" CORORATION STOP (A.W.W.A. TAPERED THREAD)
3. 3/4" COPPER TUBING (TYPE " K ")
4. 3/4" ANGLE VALVE
5. 3/4" EXPANSION CONNECION (5/8" X 3/4" M.T.R. CONN.)
6. 5/8" X 3/4" SEALED REGISTER WATER METER (FURNISHED & INSTALLED BY SDCW)
7. 3/4" ANGLE ELL WITH TEST VALVE
8. 3/4" CAST IRON METER YOKE
9. 20" DIA. X 36" METER BOX
10. POLYMER LID (12-5/16" DIA.)
11. BLOCKS - USE AS DIRECTED BY SDCW
12. INNER ALUMINUM FROST LID
13. DOUBLE LID COVER (20" DIA. X 11-1/2" DIA. INNER OPENING)

SANGRE DE CRISTO WATER DIVISION
CITY OF SANTA FE, NEW MEXICO
STANDARD DETAILS

5/8" SINGLE SERVICE

DRAWN BY: | DATE: 08/2008
CHECKED: | SCALE: N/A
APPROVED: | **02**



NOTE: SEE SERVICE LOCATION DETAIL FOR PLACEMENT DIMENSIONS AND DIRECTIONS.

ITEM

1. 1" SERVICE SADDLE
2. 1" CORORATION STOP (A.W.W.A. TAPERED THREAD)
3. 1" COPPER TUBING (TYPE " K ")
4. 1" ANGLE VALVE
5. 1" EXPANSION CONNECION
6. 1" SEALED REGISTER WATER METER (FURNISHED & INSTALLED BY SDCW)
7. 1" ANGLE ELL WITH TEST VALVE
8. 1" CAST IRON METER YOKE
9. 24" DIA. X 36" METER BOX
10. POLYMER LID (12-5/16" DIA.)
11. BLOCKS - USE AS DIRECTED BY SDCW
12. INNER ALUMINUM FROST LID
13. DOUBLE LID COVER (20" DIA. X 11-1/2" DIA. INNER OPENING) WITH EXTENSION RING (20" DIA. X 24" DIA.)

SANGRE DE CRISTO WATER DIVISION
CITY OF SANTA FE, NEW MEXICO
STANDARD DETAILS

1" SINGLE SERVICE

DRAWN BY: | DATE: 08/2008
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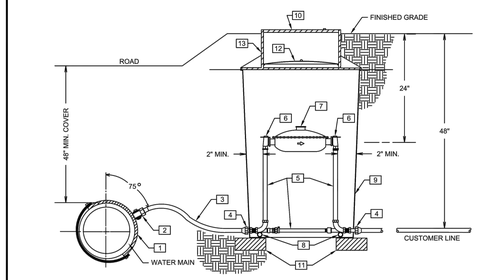
APPROVED: | **03**



NOTE: SEE SERVICE LOCATION DETAIL FOR PLACEMENT DIMENSIONS AND DIRECTIONS.

ITEM

1. 1-1/2" SERVICE SADDLE
2. 1-1/2" CORORATION STOP (A.W.W.A. TAPERED THREAD)
3. 1-1/2" COPPER TUBING (TYPE " K ")
4. 1-1/2" ADAPTER COUPLING
5. 1-1/2" PREFABRICATED METER SETTER (NO BY-PASS)
6. 1-1/2" BALL ANGLE VALVE (2 TOTAL)
7. 1-1/2" SEALED REGISTER WATER METER - 13" FLANGE-TO-FLANGE SPACING (METER FURNISHED & INSTALLED BY SDCW)
8. 1" GALVANIZED PIPE 24" LONG
9. 36" DIA. X 36" METER BOX
10. 20" DIA. POLYMER LID
11. BLOCKS - USE AS DIRECTED BY SDCW
12. INNER METAL FROST LID
13. 36" DIA. X 20" DIA. MONITOR COVER

SANGRE DE CRISTO WATER DIVISION
CITY OF SANTA FE, NEW MEXICO
STANDARD DETAILS

1-1/2" SINGLE SERVICE

DRAWN BY: | DATE: 08/2008
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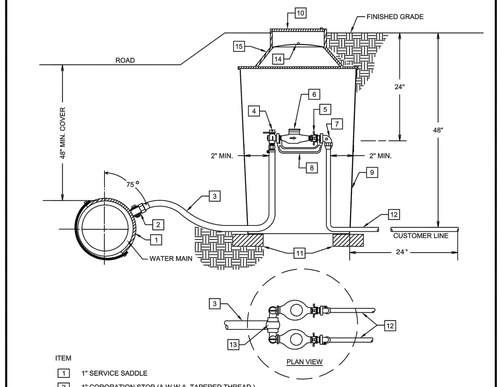
APPROVED: | **04**



ITEM

1. 1" SERVICE SADDLE
2. 1" CORORATION STOP (A.W.W.A. TAPERED THREAD)
3. 1" COPPER TUBING (TYPE " K ")
4. 3/4" ANGLE VALVE (2 EA.)
5. 3/4" EXPANSION CONNECTION (2EA.)
6. 3/4" X 5/8" SEALED REGISTER WATER METER (FURNISHED & INSTALLED BY SDCW)
7. 3/4" ANGLE ELL WITH TEST VALVE (2 EA.)
8. 3/4" CAST IRON METER YOKE (2 EA.)
9. 24" DIA. X 36" METER BOX
10. POLYMER LID (12-5/16" DIA.)
11. BLOCKS - USE AS DIRECTED BY SDCW
12. 3/4" COPPER TUBING (TYPE " K ")
13. BRANCH PIECE
14. INNER ALUMINUM FROST LID
15. DOUBLE LID COVER (20" DIA. X 11-1/2" DIA. INNER OPENING) WITH EXTENSION RING (20" DIA. X 24" DIA.)

SANGRE DE CRISTO WATER DIVISION
CITY OF SANTA FE, NEW MEXICO
STANDARD DETAILS

5/8" DOUBLE SERVICE

DRAWN BY: | DATE: 08/2008
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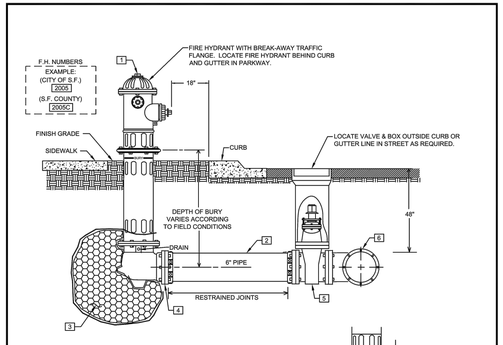
APPROVED: | **06**



FIRE HYDRANT DETAIL

KEYED NOTES:

1. FIRE HYDRANT
2. 6" PIPE
3. 1/2 CUBIC YARD 3/8" GRAVEL DRAIN W/ 10 MIL. PLASTIC SHEET
4. 6" MJ RETAINER AND 6" HARNESS (IF REQUIRED)
5. 6" MJ x FL GATE VALVE & BOX
6. TEE: MJ RUN W/ 6" FLANGE OUTLET

CONSTRUCTION NOTES:

A - FIRE HYDRANT SHALL NOT BE INSTALLED NEAR ANY STRUCTURES AND SHALL HAVE A MINIMUM 36" CLEAR SPACE IN ALL DIRECTIONS.

B - LOCATE HYDRANT 18" BEHIND BACK OF CURB UNLESS OTHERWISE SHOWN ON PLANS OR SPECIFICALLY DIRECTED BY S.D.C.W. HYDRANT TO BE SET PLUMB AND AT PROPER ELEVATION (ELEVATION PROVIDED BY DEVELOPER) HYDRANTS INSTALLED AS PART OF A NEW DEVELOPMENT/EXTENSION SHALL BE A STANDARD 5' BURY HYDRANT AND SHALL BE SET TO FINISHED GRADE WITHOUT THE USE OF HYDRANT EXTENSIONS (IF AN ADJUSTMENT IS REQUIRED, RE-LAY THE WATER MAIN AND FIRE HYDRANT LEG OR INSTALL RESTRAINED OFFSET AS DIRECTED BY SDCW)

C - WEEP HOLE MUST HAVE 1/4" PLUG REMOVED AND BE FREE DRAINING INTO GRAVEL DRAIN. USE FULLY RESTRAINED JOINTS FROM THE FIRE HYDRANT TO THE FLANGED CONNECTION ON VALVE.

D - FIRE HYDRANT SHALL BE PAINTED AND REFLECTIVE NUMBERS INSTALLED AFTER INSTALLATION.

SANGRE DE CRISTO WATER DIVISION
CITY OF SANTA FE, NEW MEXICO
STANDARD DETAILS

FIRE HYDRANT

DRAWN BY: | DATE: 08/2008
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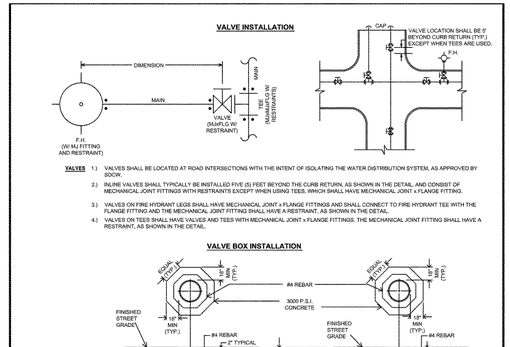
APPROVED: | **07**



VALVES 1.) VALVES SHALL BE LOCATED AT ROAD INTERSECTIONS WITH THE INTENT OF ISOLATING THE WATER DISTRIBUTION SYSTEM, AS APPROVED BY SDCW.

2.) INLINE VALVES SHALL TYPICALLY BE INSTALLED FIVE (5) FEET BEYOND THE CURB RETURN, AS SHOWN IN THE DETAIL, AND CONSIST OF MECHANICAL JOINT FITTINGS WITH RESTRAINTS EXCEPT WHEN USING TEES, WHICH SHALL HAVE MECHANICAL JOINT x FLANGE FITTING.

3.) VALVES ON FIRE HYDRANT LEGS SHALL HAVE MECHANICAL JOINT x FLANGE FITTINGS AND SHALL CONNECT TO FIRE HYDRANT TEE WITH THE FLANGE FITTING AND THE MECHANICAL JOINT FITTING SHALL HAVE A RESTRAINT, AS SHOWN IN THE DETAIL.

4.) VALVES ON TEES SHALL HAVE VALVES AND TEES WITH MECHANICAL JOINT x FLANGE FITTINGS. THE MECHANICAL JOINT FITTING SHALL HAVE A RESTRAINT, AS SHOWN IN THE DETAIL.

NEW PAVING VALVE BOXES SHALL BE INSTALLED AND RAISED TO GRADE IN THE FOLLOWING MANNER FOR NEW PAVING:

1.) VALVE BOX SHALL BE INSTALLED OVER VALVE DURING MAIN INSTALLATION. TOP OF VALVE BOX SHALL BE LEFT BELOW THE TOP OF SUBGRADE UNTIL VALVE IS READY TO BE RAISED TO FINAL GRADE.

2.) WHEN THE VALVE BOX IS READY TO BE RAISED, AN OCTAGON SHAPE SHALL BE CUT OUT AROUND THE VALVE BOX FROM THE FIRST PAVING LIFT (AS SHOWN IN THE DETAILS); THE VALVE BOX SHALL BE RAISED TO THE FINISHED STREET GRADE; THE SOIL AROUND THE VALVE BOX SHALL BE THOROUGHLY COMPACTED IN ACCORDANCE WITH CITY STANDARDS. THE CONCRETE COLLAR CONSISTING OF 3,000 PSI CONCRETE AND #4 REBAR) SHALL BE POURED FLUSH WITH THE TOP OF THE FIRST PAVING COURSE (INCLUDING HAND RODDING CONCRETE TO REMOVE VOIDS); AND THE VALVE BOX SHALL BE PROTECTED FROM VEHICULAR TRAFFIC FOR 24 HOURS.

EXISTING PAVING INSTALL VALVE BOXES PER "NEW PAVING" (SEE ABOVE) WITH THE CONCRETE COLLAR POURED FLUSH WITH THE FINISHED GRADE OF THE EXISTING PAVING WITH A SMOOTH TROWELED FINISH. NOTE: IF EXCAVATION OVER 42" SQUARE IS REQUIRED TO ADJUST VALVE BOX TO GRADE, "NEW PAVING" CONCRETE COLLAR PROCEDURE SHALL BE FOLLOWED AS WELL AS ANY NECESSARY PAVING SHALL BE COMPLETED.

UNPAVED AREAS IN DIRT OR GRAVEL STREETS, TOP OF VALVE BOX AND CONCRETE COLLAR SHALL BE LEFT 9" BELOW THE STREET GRADE. IN OTHER UNPAVED AREAS, VALVE BOX AND CONCRETE COLLAR SHALL BE LEFT 2" ABOVE FINISHED GRADE OR AS DIRECTED BY SDCW.

PROTECTION OF VALVE BOXES VALVE BOXES SHALL BE PROTECTED FROM DAMAGE, LOSS AND SHALL NOT BE FILLED WITH DIRT AND DEBRIS. VALVES MUST BE ACCESSIBLE DURING CONSTRUCTION WITH MINIMUM EXCAVATION. VALVES IDENTIFIED BY SDCW AS KEY SHUT OFF VLAVES SHALL REMAIN AT GRADE DURING ALL PHASES OF CONSTRUCTION.

SANGRE DE CRISTO WATER DIVISION
CITY OF SANTA FE, NEW MEXICO
STANDARD DETAILS

VALVE & VALVE BOX INSTALLATION

DRAWN BY: | DATE: 08/2008
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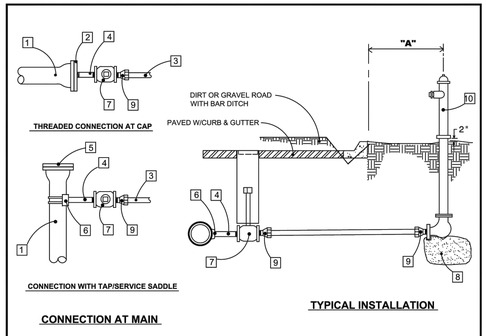
APPROVED: | **08**



CONNECTION AT MAIN

KEYED NOTES

1. RESTRAINED DEAD END MAIN
2. MJ CAP/PLUG W / 2" TAP
3. 2" TYPE-K COPPER
4. 2" BRASS NIPPLE
5. MJ CAP/PLUG
6. 2" SERVICE SADDLE W / IPS THREADS
7. 2" HEAVY DUTY THREADED GATE VALVE W / BOX
8. 1/4 YARD OF GRAVEL AT DRAIN
9. ADAPTER: 2" COMPRESSION x 2" MIP
10. 2-1/4" POST TYPE HYDRANT WITH SANTA FE THREADS

CONSTRUCTION NOTES

1. DIMENSION **"A"** IS TYPICAL 18" BACK OF CURB TO VALVE IN PAVED AREAS AND IS MINIMUM OF 18" BEHIND BAR DITCH IN UNPAVED AREAS BUT CAN BE EXTENDED UP TO 72" TO FIT FIELD CONDITIONS.

SANGRE DE CRISTO WATER DIVISION
CITY OF SANTA FE, NEW MEXICO
STANDARD DETAILS

FLUSH HYDRANT

DRAWN BY: | DATE: 08/2008
CHECKED: | SCALE: N/A
APPROVED: | **11**

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NEW MEXICO
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Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 494-5031 (800) 460-5031
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DHI

VISTAS DE LA SIERRA SUBDIVISION

CASE/PERMIT #: S-2020-2642

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

WATER DISTRIBUTION DETAILS

DESIGNED BY:
DRAWN BY: JWS
DATE: 1/28/2025
JOB NO.: 05004
SHEET NO.
C5.10

Date: Jan 28, 2025, 11:55am User ID: JWolman File: E:_PROJECT\05004 (Vista de la Sierra - Santa Fe)\Wtr - Design\Dgn\C5.10 WATER DISTRIBUTION DETAILS.dwg

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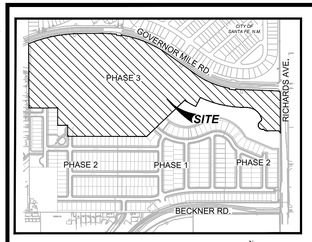

LOCATION MAP
NOT-TO-SCALE

TYPICAL SANITARY SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE

GENERAL NOTES:

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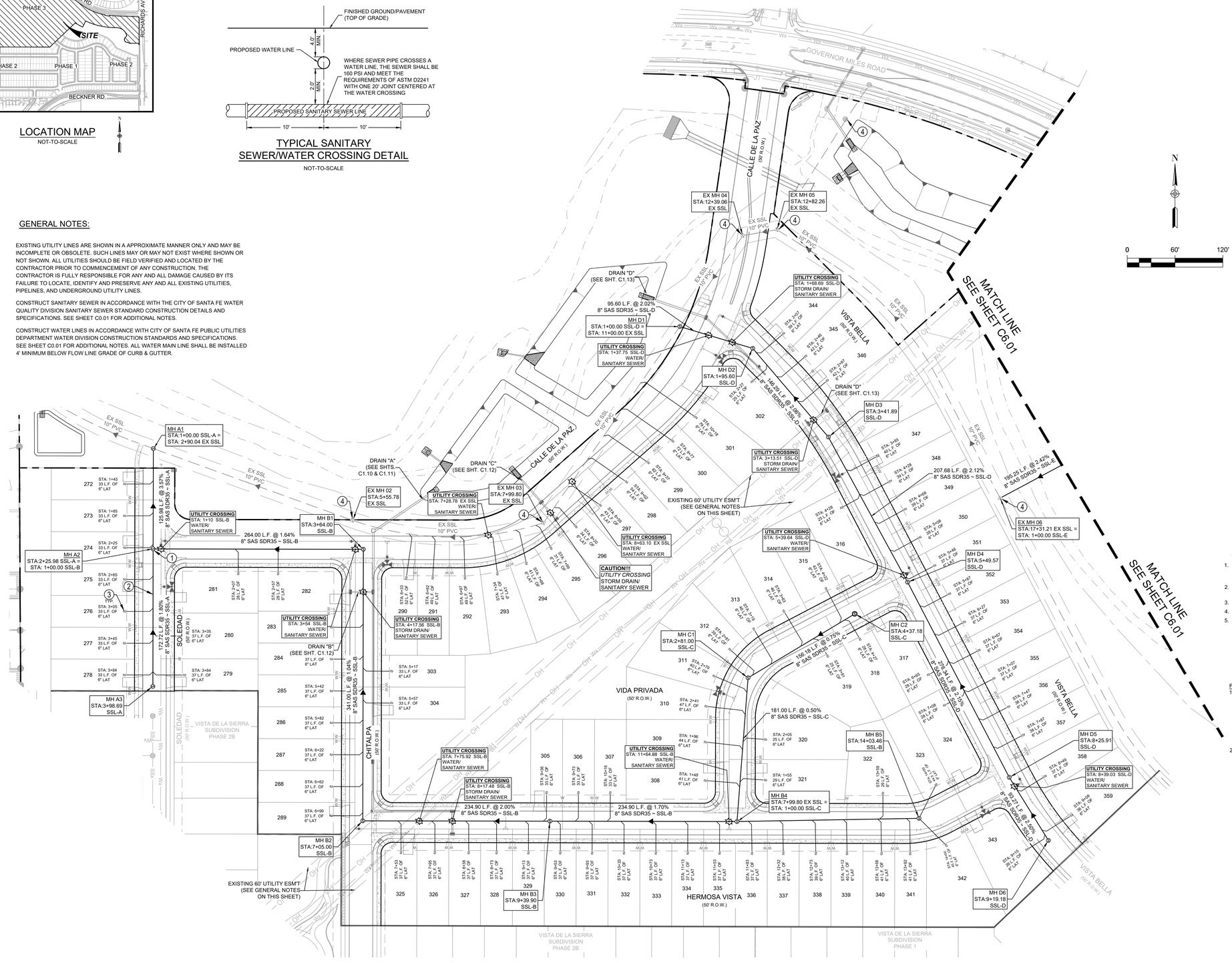

SAS KEYED NOTES:

1. INSTALL SANITARY SEWER MANHOLE (TYP E) PER STANDARD DETAILS SAS 02 THRU SAS 08, SHEET SF-1 TO SF-2. CONTRACTOR TO ADJUST RIM ELEVATION TO FINAL FINISHED GRADE.
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3. INSTALL 4" SANITARY SEWER SERVICES PER STANDARD DETAIL SAS 10, SHEET SF-2.
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FINISHED FLOOR NOTES:

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DRIVEWAY NOTE:
DRIVEWAYS SHOWN ON THIS PLAN ARE FOR THE SOLE PURPOSE OF INDICATION A POTENTIAL CONFLICT WITH CURB RAMP, DRAINAGE INFRASTRUCTURE, OR OTHER CONFLICT. DRIVEWAY LOCATION IS SUBJECT TO CHANGE BASED ON HOME SELECTION AND FINAL LOT DESIGN.

TRENCH EXCAVATION PROTECTION

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LEGEND (SANITARY SEWER)

	PROJECT LIMITS
	OFFSITE EASEMENT
	PROPOSED WATER
	PROPOSED 2" HDPE WATER
	PROPOSED SEWER
	EXISTING WATER
- EX. 8" SSL -	EXISTING SANITARY SEWER LINE
	PROPOSED MANHOLE
	EXISTING MANHOLE
	FIRE HYDRANT
	PROPOSED WYE & LATERAL
	SINGLE WATER SERVICE
	DUEL WATER SERVICE
	STREET LIGHT
GETCTV	GAS, ELECTRIC, TELEPHONE & CABLE TELEVISION EASEMENT
FF=XXXX.XX	FINISHED FLOOR ELEVATION FOR SEWER

REV	DATE	DESCRIPTION

CASE/PERMIT # S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYMAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weymand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 494-5252 (210) 494-8090
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3

SANTA FE, NM

OVERALL SANITARY SEWER PLAN

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.00

Date: May 14, 2025, 7:33am User ID: JeffRon File: E:_PROJECT\05004 (Vista De La Sierra - Santa Fe)\000 - Design\020 - Sheets\C6.00 OVERALL SANITARY SEWER PLAN.dwg

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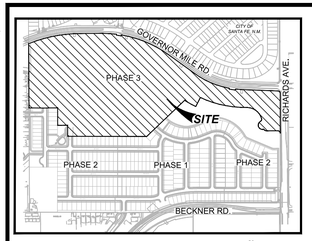
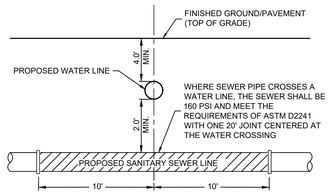
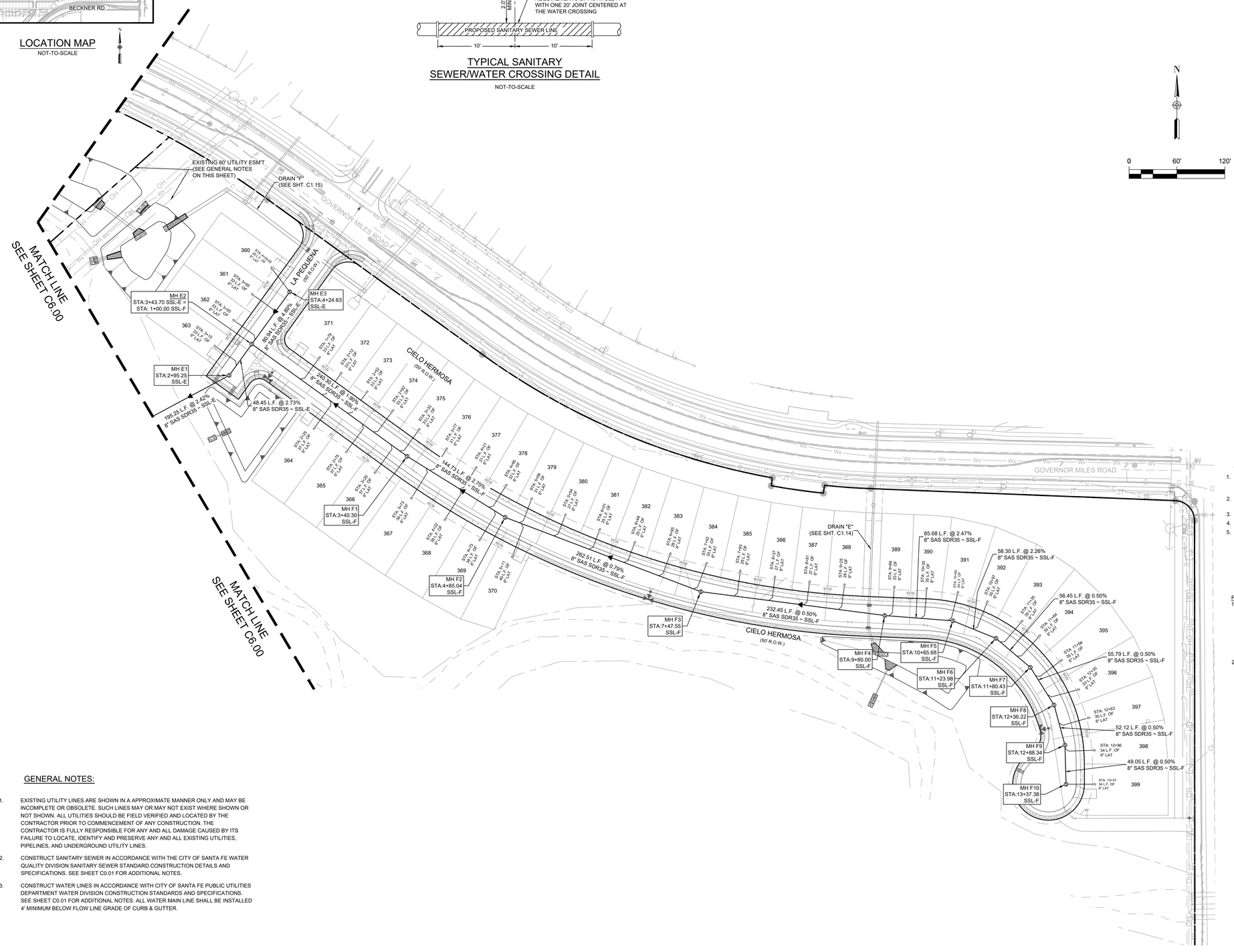
DHI ENGINEERING, LLC.



LOCATION MAP
NOT-TO-SCALE



TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE



N

0 60' 120'

LEGEND (SANITARY SEWER)

	PROJECT LIMITS
	OFFSITE EASEMENT
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	PROPOSED SEWER
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REV	DATE	DESCRIPTION

5/14/2025

VANCE L. WEYMAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 496-8900 www.dhi.com
TBPE REG. NO. F-19561

DHI

VISTA DE LA SIERRA SUBDIVISION
CASE/PERMIT #: S-2020-2642

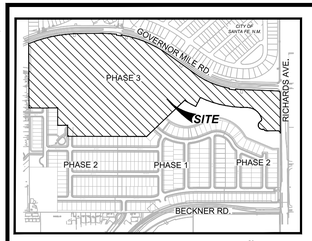
VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

OVERALL SANITARY SEWER PLAN

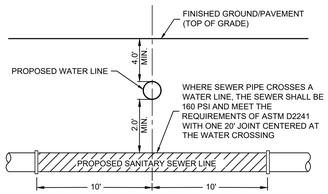
DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.01

Date: May 14, 2025, 7:32am User ID: JWeyman File: E:_PROJECT\05004 (Vista De La Sierra - Santa Fe)\(05004 - Design)\(02 - Sheets)\C6.00 OVERALL SANITARY SEWER PLAN.dwg

DHI ENGINEERING, LLC.



LOCATION MAP
NOT-TO-SCALE



TYPICAL SANITARY
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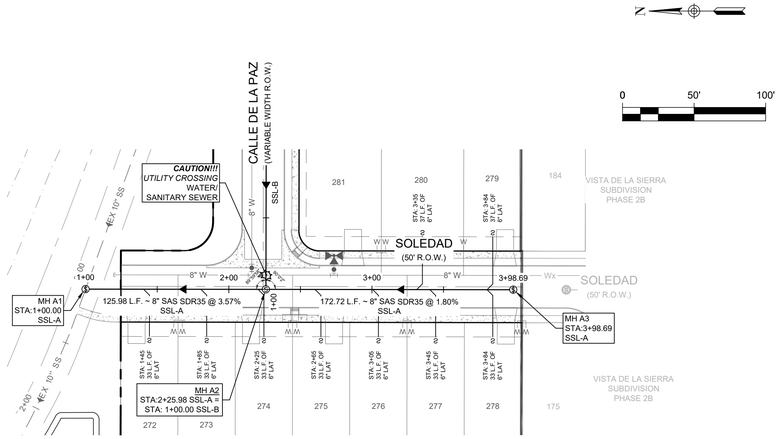
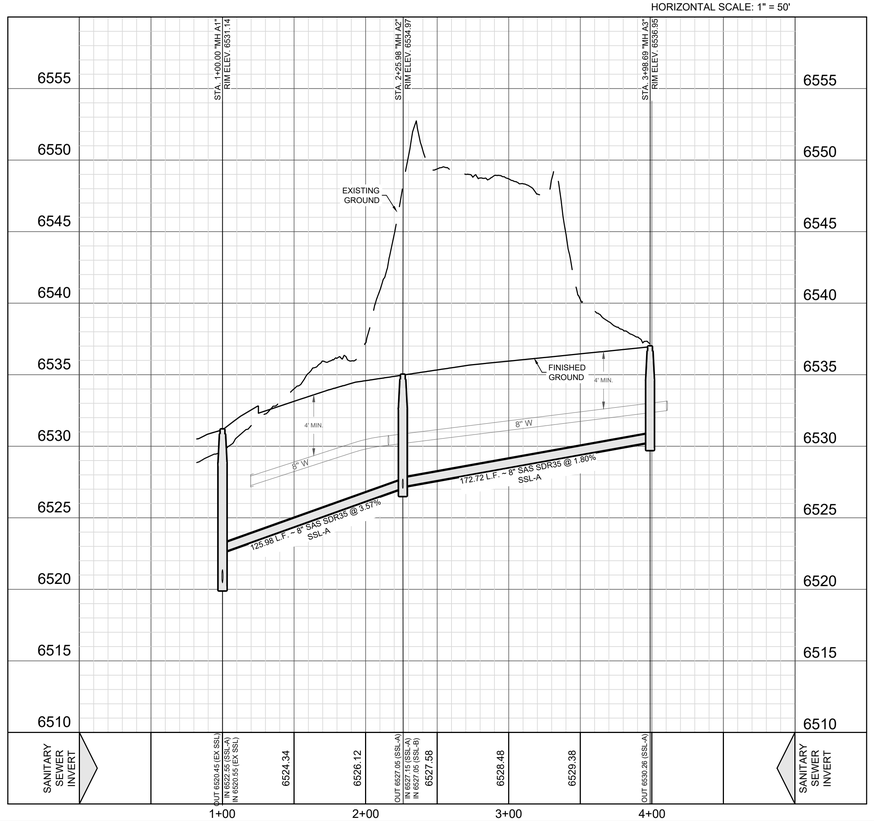
NOT-TO-SCALE



0 50' 100'

SSL-A
STA. 1+00.00 TO 3+98.69

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



LEGEND (SANITARY SEWER)

- PROJECT LIMITS
- OFFSITE EASEMENT
- PROPOSED WATER
- PROPOSED 2" HDPE WATER
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- EXISTING WATER
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REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYMAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weymand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 496-8100 (TELEPHONE)
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3

SANTA FE, NM

SANITARY SEWER LINE A -
STA. 1+00.00 TO 3+98.69

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.02

THIS DOCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. REVIEW ON FINAL HARD COPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL

Date: May 14, 2025, 7:14am User: dh Xref/Image File: E:_PROJECT\05004 (Vista De La Sierra – Santa Fe)\900 – Design\920 – Sheets\C6.02 SANITARY SEWER LINE A – STA. 1+00.00 TO 3+98.69.dwg

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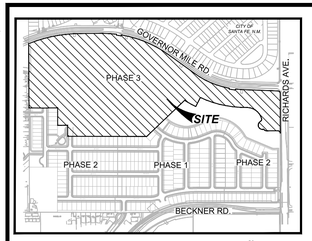
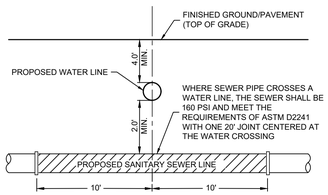
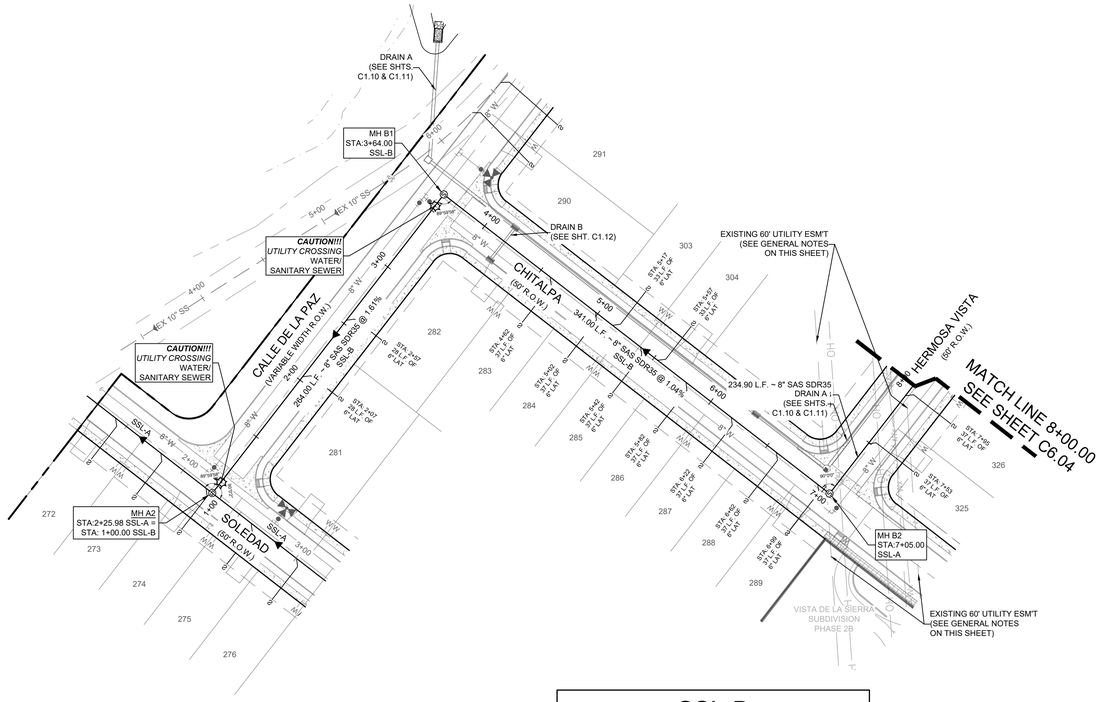
DHI ENGINEERING, LLC.



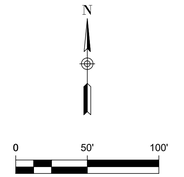
LOCATION MAP
NOT-TO-SCALE



TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE



SSL-B
STA. 1+00.00 TO 8+00.00



LEGEND (SANITARY SEWER)

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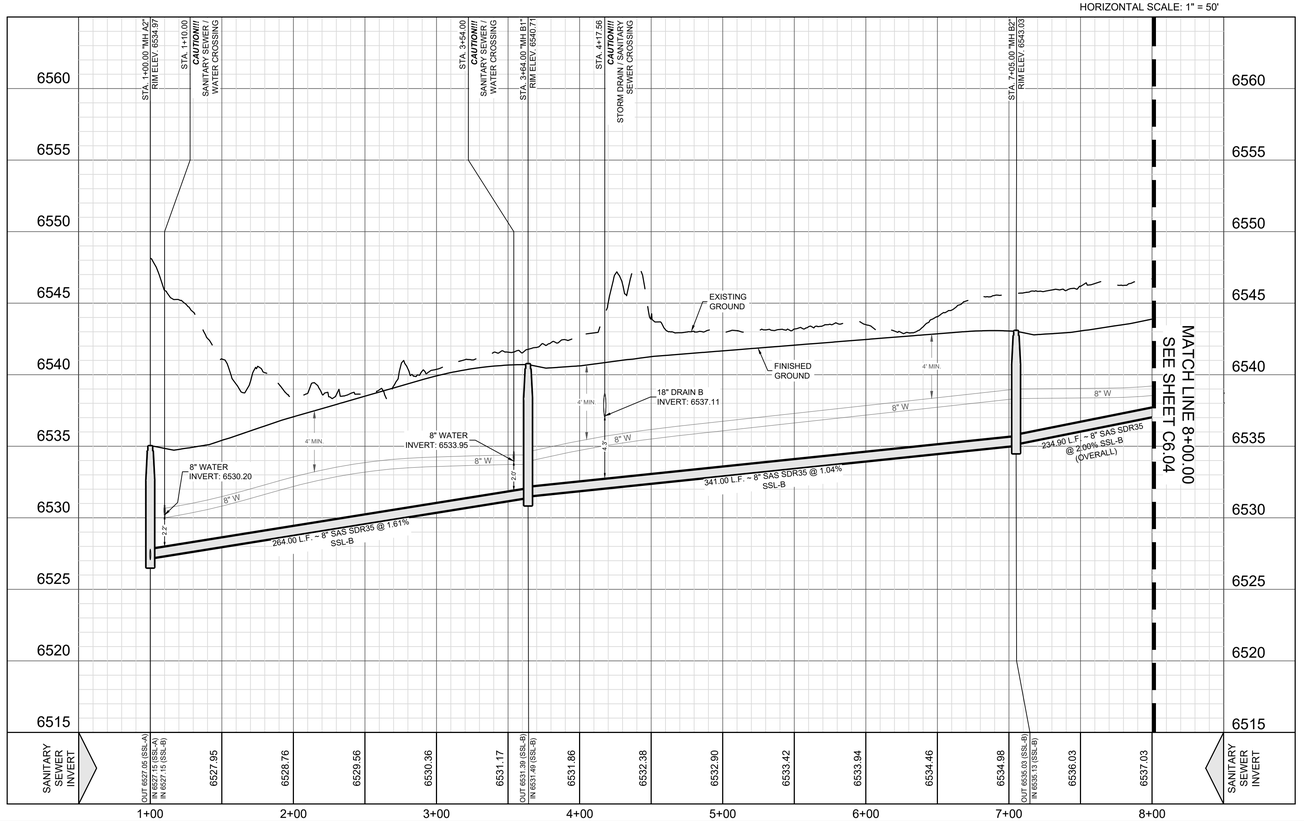
VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 998-8000
TBPE REG. NO. F-19561

DHI

REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYNAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weynand

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3

SANTA FE, NM

SANITARY SEWER LINE B -
STA. 1+00.00 TO 8+00.00

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.03

Date: May 14, 2025, 9:49am User ID: JeffSmith File: E:_PROJECTS\05004 (Vista De La Sierra – Santa Fe)\900 – Design\920 – Sheets\C6.03 SANITARY SEWER LINE B – STA. 1+00.00 TO 8+00.00.dwg

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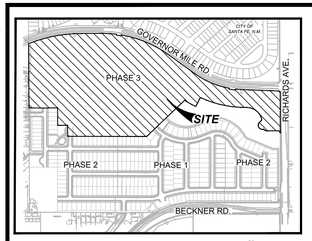
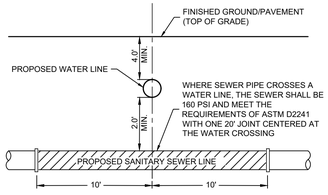
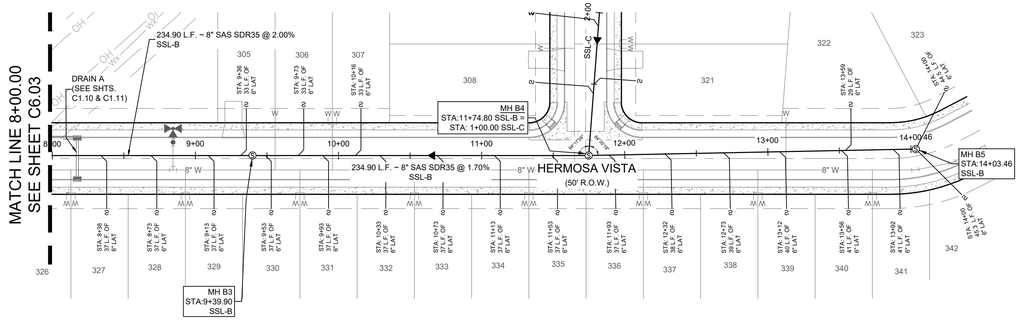
DHI ENGINEERING, LLC.



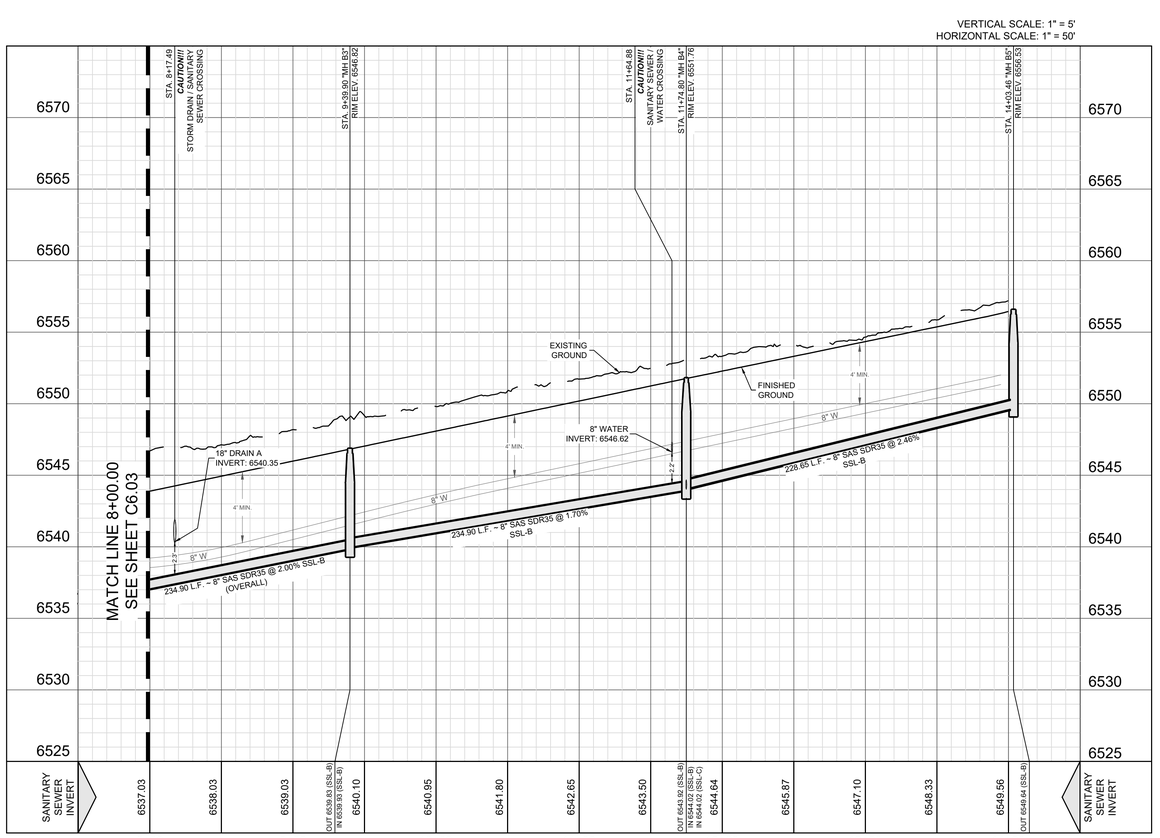
LOCATION MAP
NOT-TO-SCALE

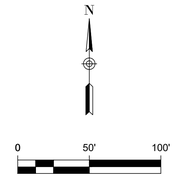


TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE



SSL-B
STA. 8+00.00 TO 14+03.46





LEGEND (SANITARY SEWER)

	PROJECT LIMITS
	OFFSITE EASEMENT
	PROPOSED WATER
	PROPOSED 2" HDPE WATER
	PROPOSED SEWER
	EXISTING WATER
	EXISTING SEWER
S	PROPOSED MANHOLE
S	EXISTING MANHOLE
	FIRE HYDRANT
	DUEL WATER SERVICE
	SINGLE WATER SERVICE
	PROPOSED WYE & LATERAL
2.00'	VERTICAL STACK

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REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYMAND
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29907
PROFESSIONAL ENGINEER

Vance Weymand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 496-8100 (210) 496-8200
TBPE REG. NO. F-19561

DHI

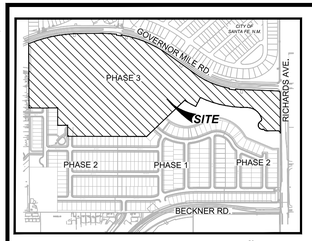
VISTAS DE LA SIERRA SUBDIVISION - PHASE 3

SANTA FE, NM

SANITARY SEWER LINE B -
STA. 8+00.00 TO 14+03.46

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.04

Date: May 14, 2025, 9:56am User ID: JeffSmith File: E:_PROJECTS\05004 (Vista De La Sierra - Santa Fe)\900 - Design\920 - Sheets\C6.04 SANITARY SEWER LINE B - STA. 8+00.00 TO 14+03.46.dwg



LOCATION MAP
NOT-TO-SCALE

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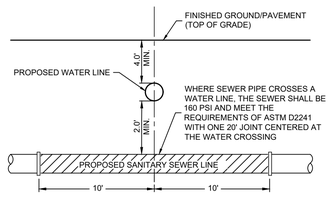
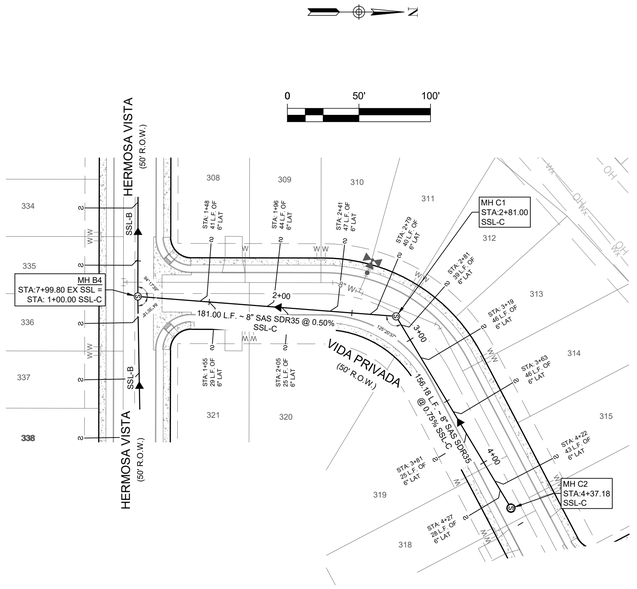


TYPICAL SANITARY SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE



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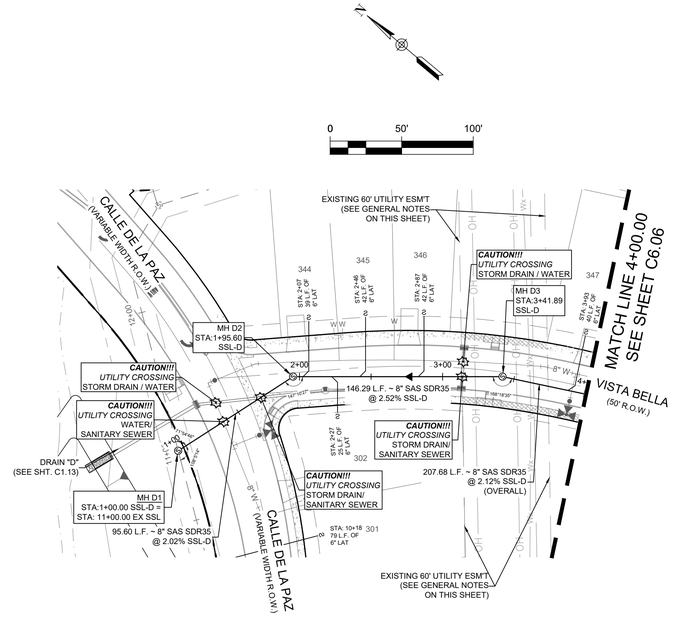
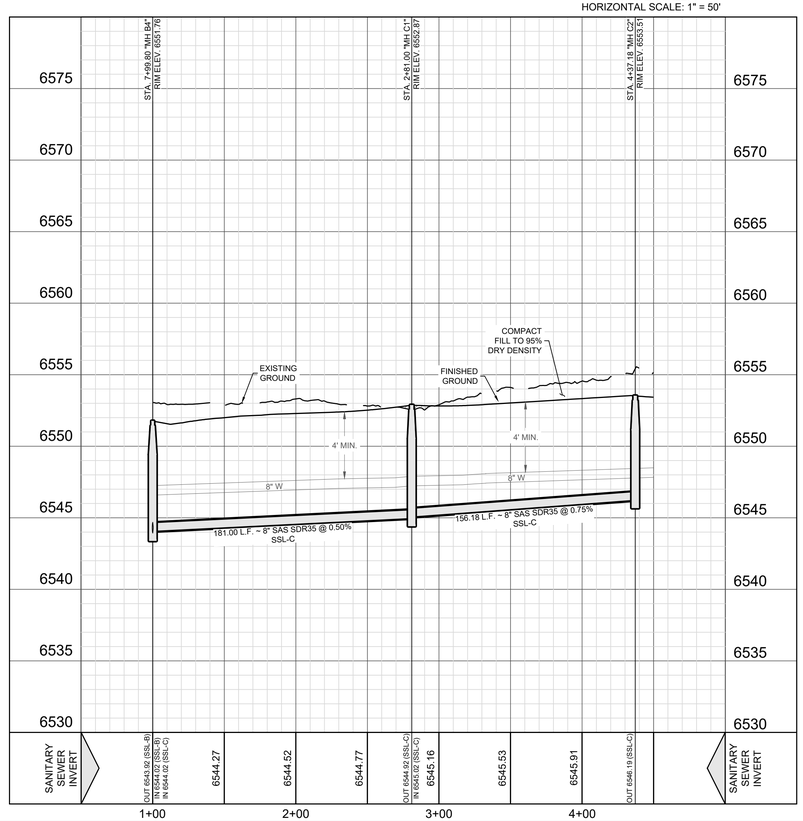
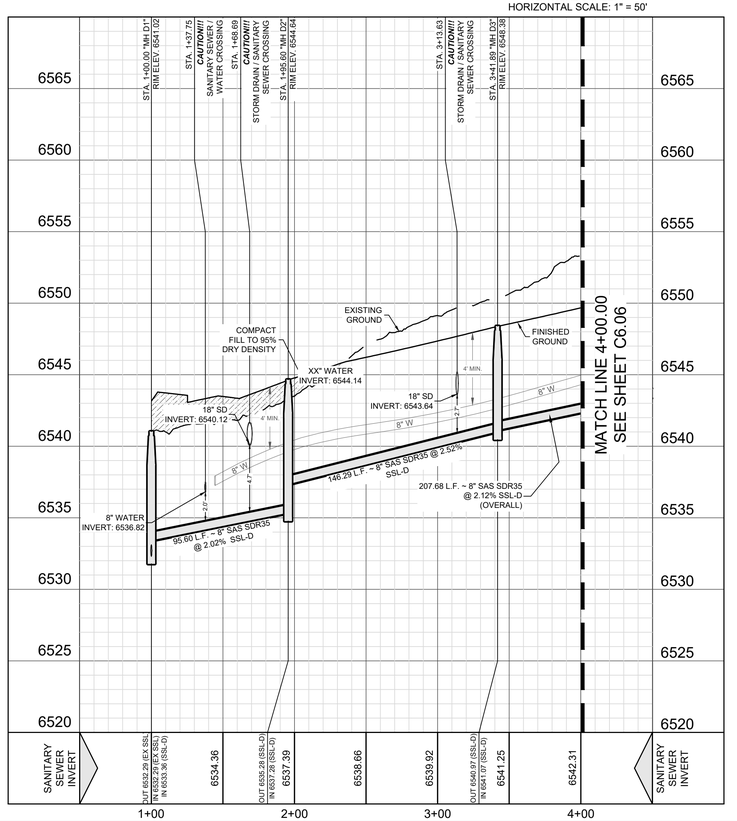
STA. 1+00.00 TO 4+37.18



SSL-D
STA. 1+00.00 TO 4+00.00





LEGEND (SANITARY SEWER)

	PROJECT LIMITS
	OFFSITE EASEMENT
	PROPOSED WATER
	PROPOSED 2" HDPE WATER
	PROPOSED SEWER
	EXISTING WATER
	EXISTING SEWER
S	PROPOSED MANHOLE
S	EXISTING MANHOLE
	FIRE HYDRANT
	DUEL WATER SERVICE
	SINGLE WATER SERVICE
	PROPOSED WYE & LATERAL
2.00'	VERTICAL STACK

REV	DATE	DESCRIPTION
		CASE/PERMIT #: S-2020-2642

5/14/2025
VANCE L. WEYNAND NEW MEXICO 29907 PROFESSIONAL ENGINEER
Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 494-5710 www.dhiinc.com
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM
SANITARY SEWER LINE C & LINE D

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.05

DHI ENGINEERING, LLC.
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Date: May 14, 2025, 9:53am User ID: JeffSmith File: E:_PROJECTS\05004 (Vista De La Sierra – Santa Fe)\000 – Design\020 – Sheets\C6.05 SANITARY SEWER LINE C & LINE D.dwg

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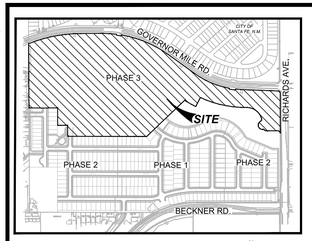

LOCATION MAP
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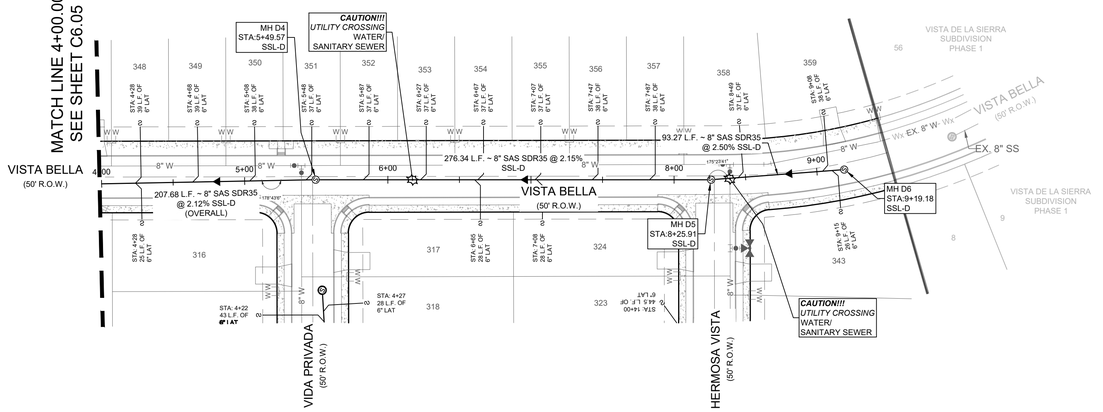

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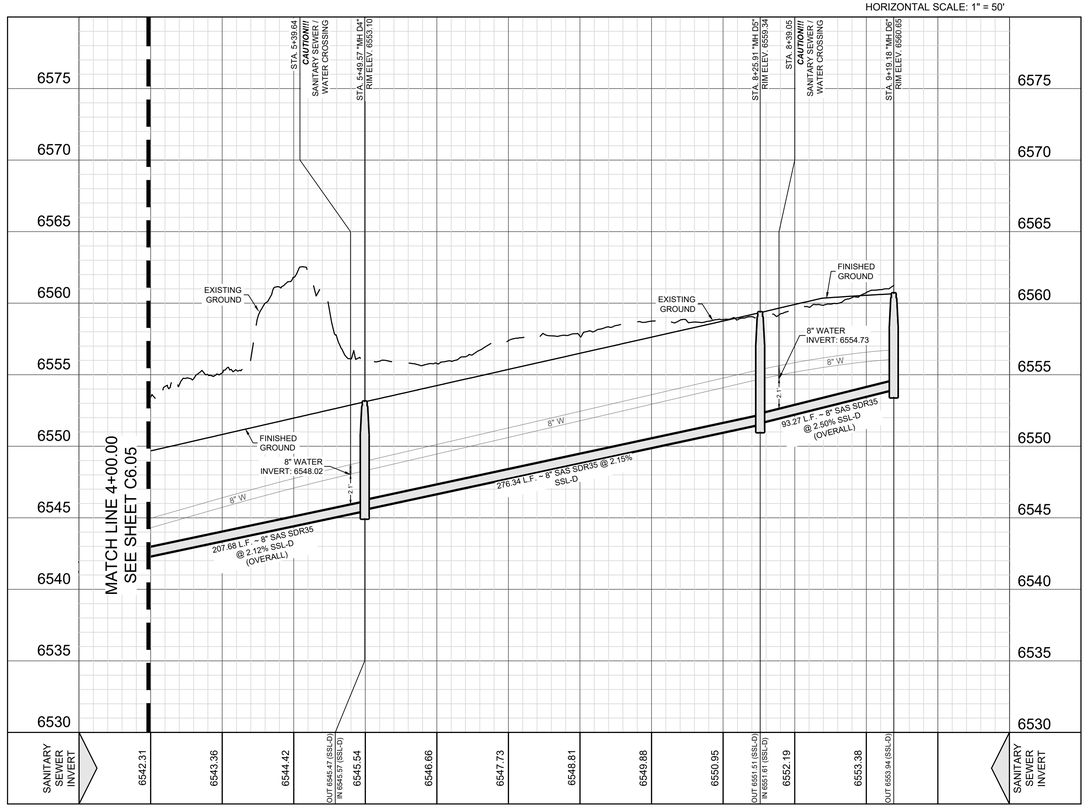
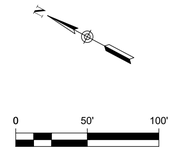
STA. 1+00.00 TO 9+19.18





LEGEND (SANITARY SEWER)

- PROJECT LIMITS
- OFFSITE EASEMENT
- PROPOSED WATER
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- EXISTING WATER
- EXISTING SEWER
- PROPOSED MANHOLE
- EXISTING MANHOLE
- FIRE HYDRANT
- DUEL WATER SERVICE
- SINGLE WATER SERVICE
- PROPOSED WYE & LATERAL
- VERTICAL STACK (2.00')

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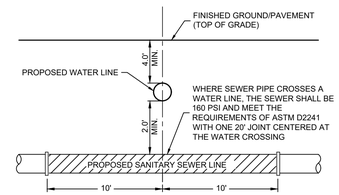

TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE

REV	DATE	DESCRIPTION

5/14/2025

VANCE L WEYMAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weymand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 483-9000 (210) 483-9001
TBPE REG. NO. F-19561

DHI

VISTA DE LA SIERRA SUBDIVISION

CASE/PERMIT #: S-2020-2642

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

SANITARY SEWER LINE D
- STA. 4+00.00 TO 9+19.18

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.06

Date: May 14, 2025, 9:54am User ID: JeffSmith File: E:_PROJECTS\05004 (Vista De La Sierra – Santa Fe)\900 – Design\920 – Sheets\C6.06 SANITARY SEWER LINE D – STA. 4+00.00 TO 9+19.18.dwg

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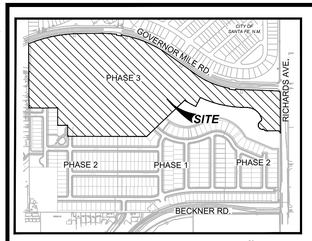
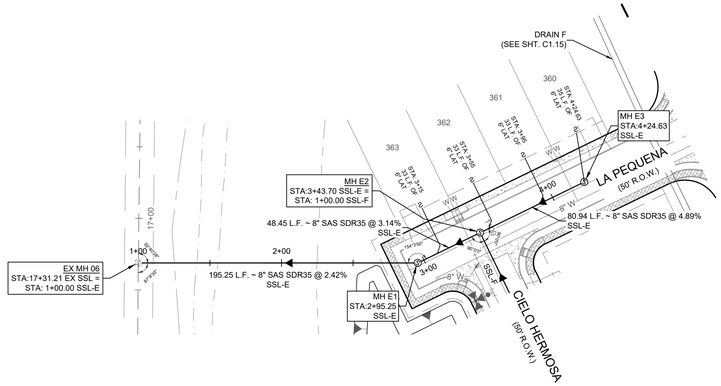
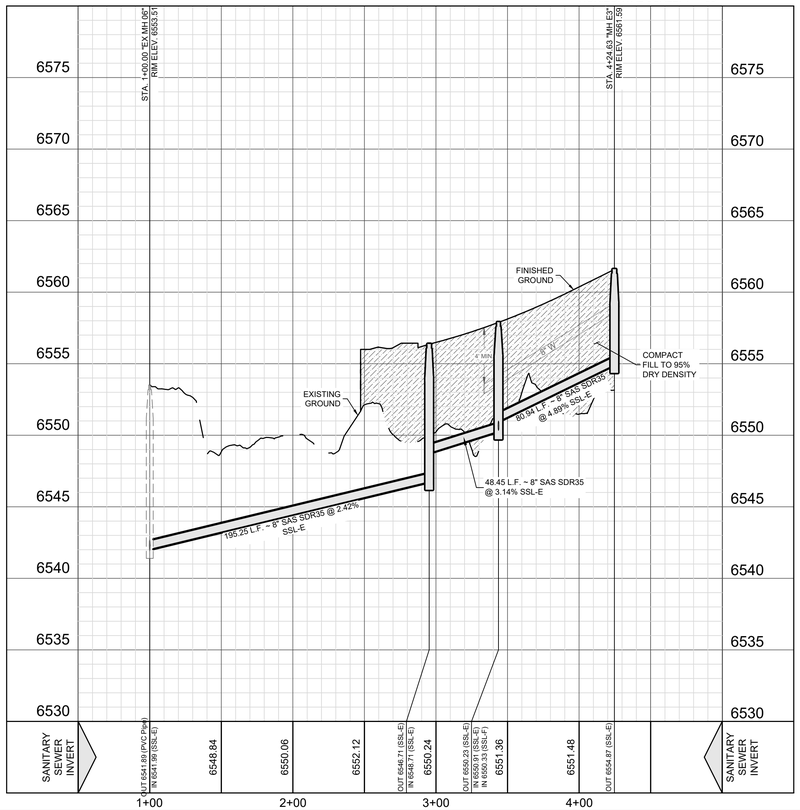


LOCATION MAP
NOT-TO-SCALE



SSL-E
STA. 1+00.00 TO 4+24.63

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



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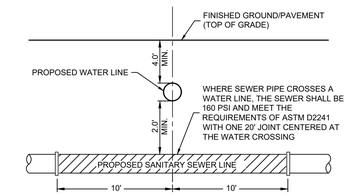

TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE

LEGEND (SANITARY SEWER)

- PROJECT LIMITS
- OFFSITE EASEMENT
- PROPOSED WATER
- PROPOSED 2" HDPE WATER
- PROPOSED SEWER
- EXISTING WATER
- EXISTING SEWER
- PROPOSED MANHOLE
- EXISTING MANHOLE
- FIRE HYDRANT
- DUEL WATER SERVICE
- SINGLE WATER SERVICE
- PROPOSED WYE & LATERAL
- VERTICAL STACK (2.00')

REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L. WEYMAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weymand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 496-8100 www.dhiweb.com
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

SANITARY SEWER LINE E -
STA. 1+00.00 TO 4+24.63

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.07

Date: May 14, 2025, 9:56am User ID: JeffSmith File: E:_PROJECTS\05004 (Vista De La Sierra – Santa Fe)\900 – Design\920 – Sheets\C6.07 SANITARY SEWER LINE E – STA. 1+00.00 TO 4+24.63.dwg

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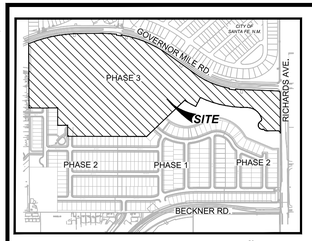
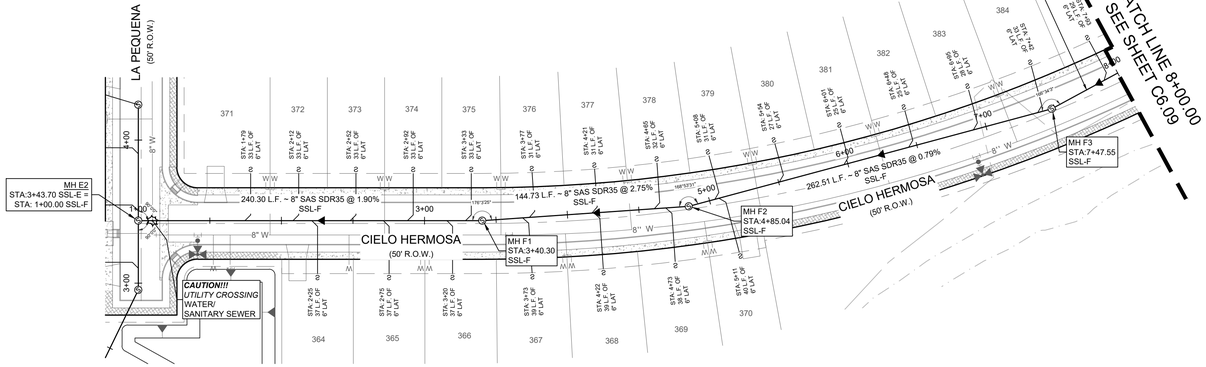
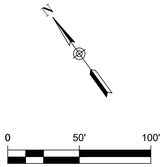


LOCATION MAP
NOT-TO-SCALE





LEGEND (SANITARY SEWER)

	PROJECT LIMITS
	OFFSITE EASEMENT
	PROPOSED WATER
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	EXISTING SEWER
S	PROPOSED MANHOLE
S	EXISTING MANHOLE
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SSL-F
STA. 1+00.00 TO 8+00.00

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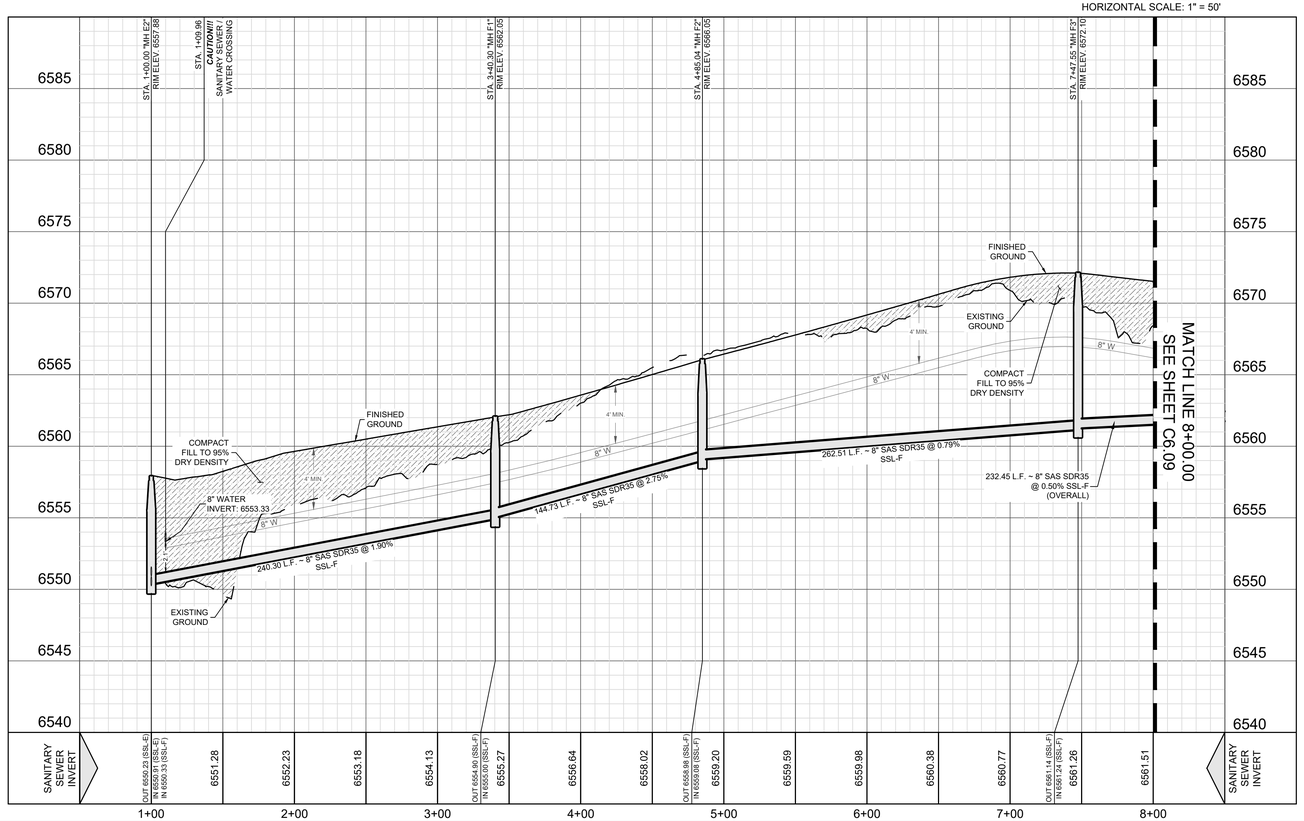

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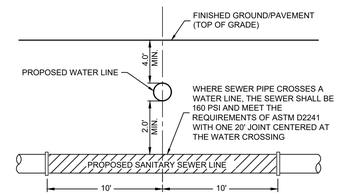

TYPICAL SANITARY SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE

REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

5/14/2025

VANCE L WEYMAND
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VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

SANITARY SEWER LINE F -
STA. 1+00.00 TO 8+00.00

DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.08

Date: May 14, 2025, 9:57am User ID: JeffSmith File: E:_PROJECTS\05004 (Vista De La Sierra - Santa Fe)\900 - Design\920 - Sheets\C6.08 SANITARY SEWER LINE F - STA. 1+00.00 TO 8+00.00.dwg

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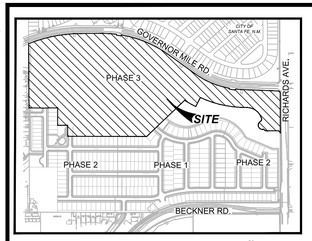

LOCATION MAP
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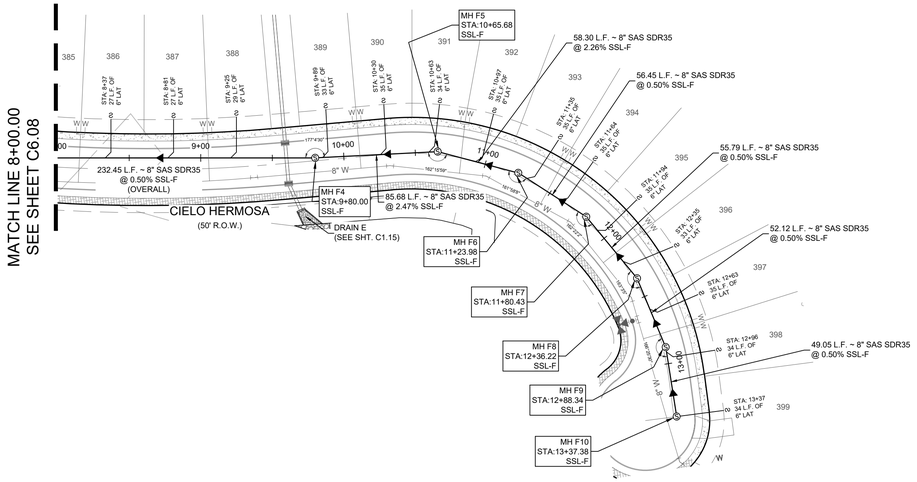

SSL-F
STA. 8+00.00 TO 13+37.38

VERTICAL SCALE: 1" = 5'
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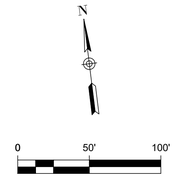

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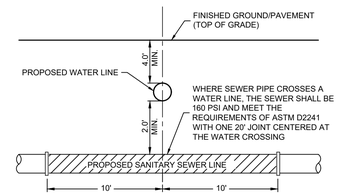


TYPICAL SANITARY
SEWER/WATER CROSSING DETAIL
NOT-TO-SCALE

REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

5/14/2025

VANCE L. WEYMAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 496-8811 www.dhi.com
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3

SANTA FE, NM

SANITARY SEWER LINE F -
STA. 8+00.00 TO 13+37.38

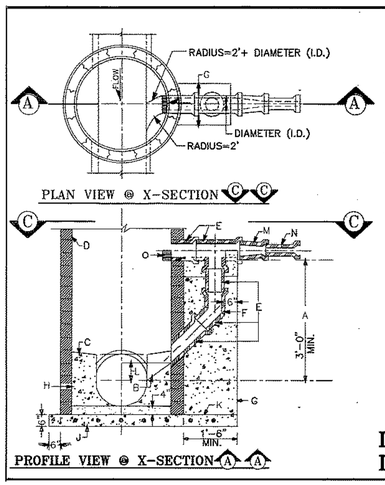
DESIGNED BY:	JWS
DRAWN BY:	JWS
DATE:	5/14/2025
JOB NO.:	05004
SHEET NO.	C6.09

Date: May 14, 2025, 9:58am User: dh Pattern File: E:_PROJECTS\05004 (Vista De La Sierra - Santa Fe)\000 – Design\020 – Sheets\C6.09 SANITARY SEWER LINE F – STA. 8+00.00 TO 13+37.38.dwg

DHI ENGINEERING, LLC.

LEGEND

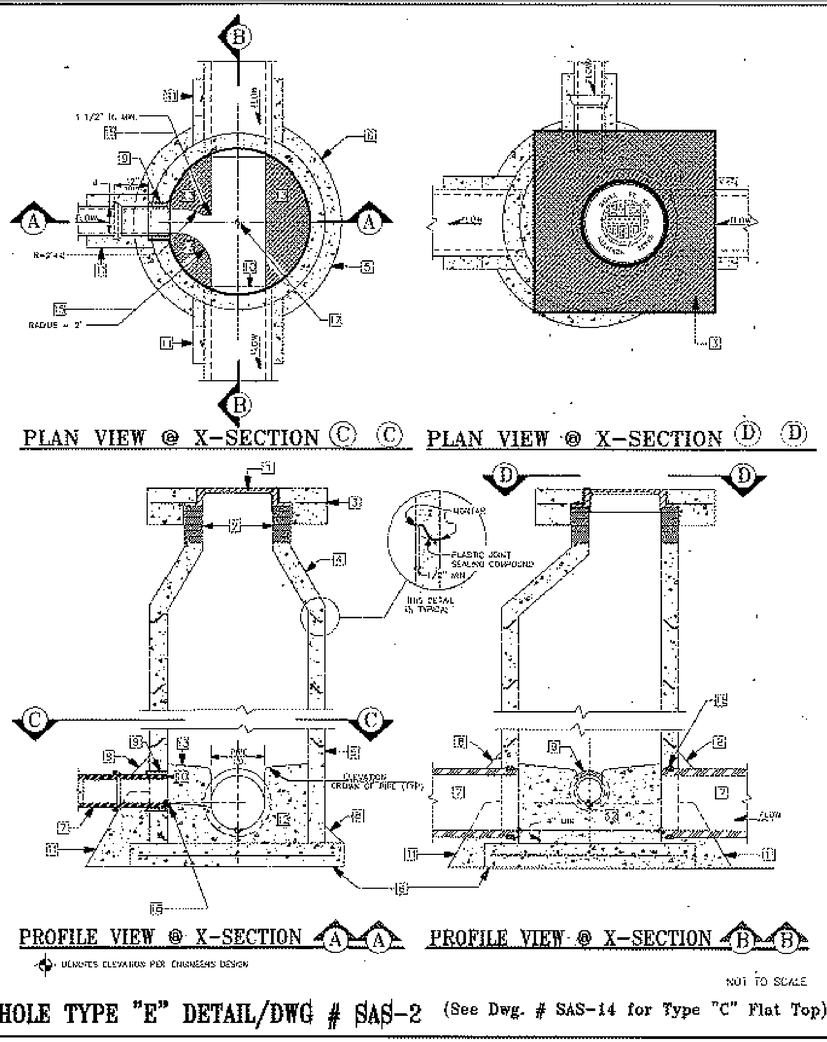
ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg. No. SAS-4
2	CONCRETE ADJUSTMENT RINGS or CONCRETE BRICK, refer to concrete adjustment detail Dwg. No. SAS-5
3	CONCRETE COLLAR, refer to concrete collar detail Dwg. No. SAS-6
4	PRECAST REINFORCED CONCRETE RISER, CONE or FLAT TOP, with 5"(in) wall thickness, refer to general note CM-2
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general note CM-2A
6	CONCRETE BASE, refer to concrete base detail Dwg. No. SAS-7
7	SEWER PIPE, refer to general note CM-1
8	6"(in) GROUT FILLET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
10	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
11	PIPE SUPPORT, CONCRETE, shall extend out-side of manhole a maximum of 18"(in) to bell of first joint and shall cradle pipe half pipe
12	CONCRETE FILL, 3000 p.s.i., refer to general note CR-6
13	SHELF, to be 9"(in) minimum width with 1"(in) per 1'-0" slope, from crown of pipe
14	CUT UPPER HALF OF PIPE, after manhole has been completed and inspected by engineer
15	HAND FORMED CHANNELS, shall be on a uniform radius and shall not hold water
16	INVERT ELEVATIONS OF LATERAL LINES, shall be the same as the springline elevation of the sewer main, where possible
17	CHANGE SLOPE OF PIPE, at center of manhole
18	APPROVED WATER STOP, to be with type of pipe



CONSTRUCTION NOTES

A. 3' (FT) MINIMUM DISTANCE OF VERTICAL DROP. LESS THAN 3'(FT) DISALLOWS DROP MANHOLE.
B. FORM PIPE INVERT IN SHELF. INVERT TO SPRINGLINE.
C. SHELF SLOPE, 1"(IN) PER FT.
D. MANHOLE TYPE FOR UPPER PORTION IS SPECIFIED IN MANHOLE TYPE "E" DETAIL DWG NO. SAS-2.
E. USE D.I. OR P.V.C.(SDR 35) PIPE THROUGHOUT DROP. ALL PIPING IN DROP STRUCTURE FROM THE TEE IS INCREASED ONE PIPE SIZE FROM THE SERVICE LINE. (SERVICE=8" DROP=10")
F. USE BELL AND SPIGOT 45° LONG RADIUS BEND.
G. CONCRETE SUPPORT WIDTH EQUALS PIPE O.D. PLUS 6"(IN) MINIMUM EACH SIDE.
H. CONCRETE FILL.
J. CAST IN PLACE REINFORCED CONCRETE BASE REQUIRED. CONCRETE BASE TO BE POURED IN PLACE USING NO.4 BARS AT 6"(IN) O.C. EACH WAY FOR MANHOLE DEPTH OF 15'(FT) OR GREATER. NO4 BARS AT 12"(IN) O.C. EACH WAY FOR MANHOLE DEPTH LESS THAN 15'(FT) IN DEPTH.
K. FOR NEW DROP ON EXISTING MANHOLE CONSTRUCT 3X3 REINFORCED CONCRETE BASE BEFORE CONSTRUCTING DROP SUPPORT.
L. MINIMUM 2"(IN) ABOVE SPRINGLINE OR AS SHOWN ON PLAN.
M. REDUCER
N. SERVICE LINE
O. EXTEND PIPE 3"(IN) MINIMUM 6"(IN) MAXIMUM INTO MANHOLE TOP. 1/2 PIPE REMOVED.

DROP MANHOLE DETAIL
DWG. #: SAS-1 NOT TO SCALE



MANHOLE TYPE "E" DETAIL/DWG # SAS-2 (See Dwg. # SAS-14 for Type "C" Flat Top)

CONSTRUCTION MATERIALS

CM-1 SEWER PIPE: (CERTIFICATES REQUIRED)
A. VITRIFIED CLAY: REFER TO SECTION 125, NM APWA FOR EXTRA STRENGTH VCP.
B. PLASTIC (PVC): REFER TO SECTION 121, NM APWA, AS MODIFIED BY THE CITY.
1. UP THRU 10" (IN.) DIAMETER: ASTM D 3034 PIPE.
2. 12 INCH THRU 15" (IN.) DIAMETER: ASTM D 3034 SDR 35 PIPE.
3. LARGER THAN 15" (IN.) DIAMETER: ASTM F 679 VOL. 08.04.
C. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1310 FOR COUPLINGS PRODUCED BY UNI-FLANGE CORPORATION, LOCKING COUPLINGS WITH NYLON SPLINE, MARKETED AS "YELLOWMINE" AND PRODUCED BY CERTAINTEED CORPORATION, OR APPROVED EQUAL.
D. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.
E. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.
F. SERVICE CONNECTIONS:
1. VCP PIPE: FACTORY TEE FITTINGS; SECTION 125 NM APWA.
2. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS; FOWLER "QUICKWAY" GENECO, HERSEY "PIONEER", OR APPROVED EQUAL.
G. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701.3.5 NM APWA.

CM-2 MANHOLES:
A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.05 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.
B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.
C. MANHOLE STEPS: REFER TO SECTION 920.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL BY M.A. INC. OR APPROVED EQUAL; 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.
D. FRAMES AND COVERS:
1. CASTING: SHALL CONFORM TO SECTION 160, 161 & 162, NM, APWA CLASS 30B. (CERTIFICATES AND SHOP DRAWINGS REQUIRED)
2. MINIMUM COVER WEIGHT: 165 POUNDS
3. MINIMUM COMBINED WEIGHT: 365 POUNDS +/- 5%
4. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)
5. COATING: NONE
6. COVER LETTERINGS: SANTA FE, N.M. SANITARY SEWER
7. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER.
8. CASTINGS TOLERANCE: +/- 1/16"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.

CM-3 CONCRETE ENCASEMENT:
A. REQUIREMENTS:
1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.
2. WHEN VITRIFIED CLAY CROSSES AN ARROYO.
3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.
4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.
5. THE SEWER LINE SHALL BE ENCASED IN CONCRETE 6"(IN.) THICK AS DETAILED, AND EXTEND AT LEAST 10'(FT.) ON EACH SIDE OF THE WATER LINE.

NOTE: REVISIONS TO THIS SHEET SHALL BE MADE UNDER THE AUTHORITY OF THE CITY OF SANTA FE ONLY.

FIELD QUALITY CONTROL

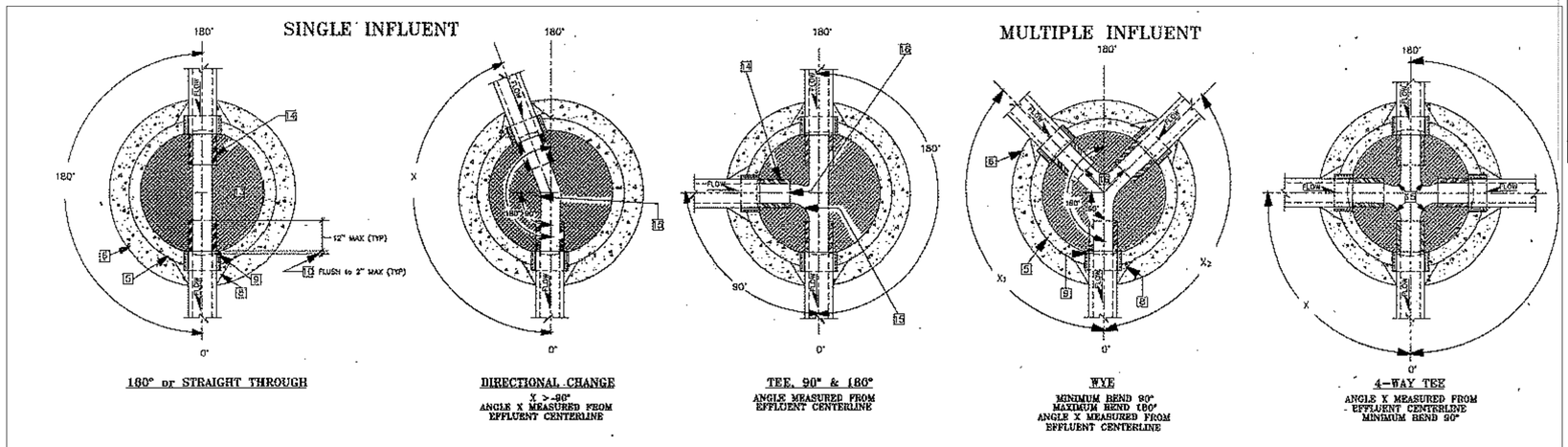
FQC-1 TESTING AND INSPECTION:
A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE.
C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.

FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURES FROM DESIGN;
A. LINE: 0.20 FOOT
B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD BACK ANY WATER.

FQC-3 LEAKAGE TEST:
AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.

FQC-4 TELEVISION INSPECTION:
CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT HIS OWN EXPENSE.

FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.



PLAN VIEW OF MANHOLE BASE CONNECTION/DWG. # SAS-3 NOT TO SCALE

REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

1/28/2025

VANCE L WEYNAND NEW MEXICO 29907 PROFESSIONAL ENGINEER

Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 490-4999 (210) 490-8990
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

SANITARY SEWER DETAILS

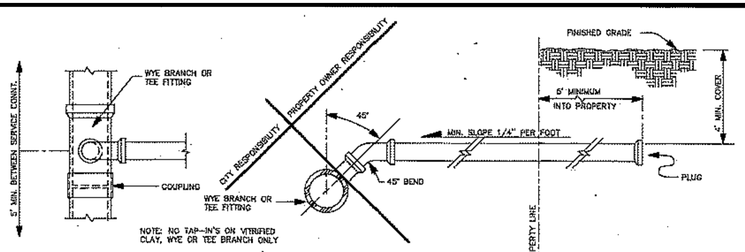
DESIGNED BY:	
DRAWN BY:	JWS
DATE:	1/28/2025
JOB NO.:	05004
SHEET NO.	C6.20

THIS DOCUMENT HAS BEEN REPRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. REFER ONLY ON FINAL HARD COPY MATERIALS BEARING THE ORIGINAL SIGNATURE AND SEAL.

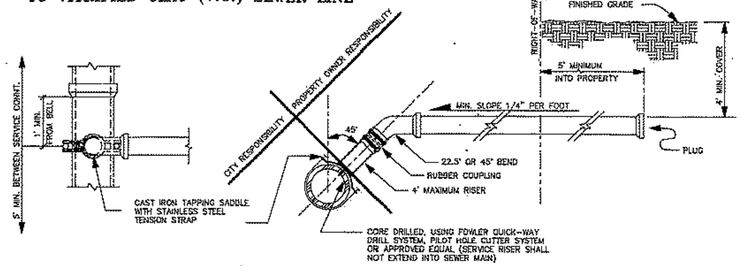
Date: Jan 28, 2025, 11:32am User ID: JWSmith File: E:_PROJECT\05004 (Vista De La Sierra - Santa Fe)\05 - Design\SAS-3 SANITARY SEWER DETAILS.dwg

LEGEND

ITEM	DESCRIPTION
1	MANHOLE FRAME & COVER, refer to manhole frame and cover detail Dwg. No. SAS-4
2	CONCRETE ADJUSTMENT RINGS or CONCRETE BRICK, refer to concrete adjustment detail Dwg. No. SAS-5
3	CONCRETE COLLAR, refer to concrete collar detail Dwg. No. SAS-6
4	PRECAST REINFORCED CONCRETE RISER, CONE or FLAT TOP, with 5"(in) wall thickness, refer to general note CM-2
5	PRECAST REINFORCED CONCRETE BASE RISER, with suitable sized openings, refer to general note CM-2A
6	CONCRETE BASE, refer to concrete base detail Dwg. No. SAS-7
7	SEWER PIPE, refer to general note CM-1
8	6"(in) GROUT FILLET, on upper half of pipe and around base
9	ADAPTER, MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
10	PIPE PENETRATION INTO MANHOLE, refer to manhole adapter detail Dwg. No. SAS-8
11	PIPE SUPPORT, CONCRETE, shall extend out-side of manhole a maximum of 18"(in) to bell of first joint and shall cradle pipe half pipe
12	CONCRETE FILL, 3000 p.s.i., refer to general note CR-6
13	SHELF, to be 9"(in) minimum width with 1"(in) per 1'-0" slope, from crown of pipe
14	CUT UPPER HALF OF PIPE, after manhole has been completed and inspected by engineer
15	HAND FORMED CHANNELS, shall be on a uniform radius and shall not hold water
16	INVERT ELEVATIONS OF LATERAL LINES, shall be the same as the springline elevation of the sewer main, where possible
17	CHANGE SLOPE OF PIPE, at center of manhole
18	APPROVED WATER STOP, to be with type of pipe



TO VITRIFIED CLAY (V.C.) SEWER LINE



TO PVC SEWER LINE

NOT TO SCALE

SERVICE CONNECTION DETAILS/DWG. # SAS-10

GENERAL NOTES

CONSTRUCTION REQUIREMENTS

CR-1 MATERIALS AND WORK:
CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (referred to as NM APWA) WITH MODIFICATIONS NOTED BY THE CITY OF SANTA FE.

CR-2 APPROVED PLANS:
USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. CONSTRUCTION PERFORMED WITHOUT APPROVED PLANS WILL BE REJECTED.

CR-3 SEWER HOOK-UP PERMIT:
OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY SEWER CONSTRUCTION. CONSTRUCTION PERFORMED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.
A. CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED. CHANGE OF BEDDING MAY REQUIRE A CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.

CR-4 SUBSTITUTIONS OR CHANGES:
ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE CITY WATER QUALITY DIVISION OR CITY APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED BY THE DESIGN ENGINEER TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR TEST DATA TO JUSTIFY SUBSTITUTIONS OR CHANGES. DESIGN ENGINEER SHALL AUTHORIZE ANY DRAWINGS FOR SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE CITY WATER QUALITY DIVISION FOR APPROVAL. UNAUTHORIZED SUBMITTALS WILL BE REJECTED.

CR-5 MANUFACTURER'S CERTIFICATES:
WHEN CERTIFICATES OF COMPLIANCE AND TEST REPORTS ARE REQUIRED FOR MATERIALS, DOCUMENTS SHALL BE SUBMITTED TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY TO THE JOBSITE.

CR-6 CONTRACTOR REQUIREMENTS:
CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED UTILITY CONTRACTOR.

CONSTRUCTION MATERIALS

CM-1 SEWER PIPE: (CERTIFICATES REQUIRED)
A. VITRIFIED CLAY: REFER TO SECTION 125, NM APWA FOR EXTRA STRENGTH VCP.
B. PLASTIC (PVC): REFER TO SECTION 121, NM APWA, AS MODIFIED BY THE CITY.
1. UP THRU 10" (IN.) DIAMETER: ASTM D 3034 PIPE.
2. 12 INCH THRU 15" (IN.) DIAMETER: ASTM D 3034 SDR 35 PIPE.
3. LARGER THAN 15" (IN.) DIAMETER: ASTM F 679 VOL. 08.04.
C. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1390 FOR COUPLINGS PRODUCED BY UNI-FLANGE CORPORATION, LOCKING COUPLINGS WITH NYLON SPLINE, MARKETED AS "YELLOWNET" AND PRODUCED BY CERTAINTEED CORPORATION, OR APPROVED EQUAL.
D. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.
E. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.
F. SERVICE CONNECTIONS:
1. VCP PIPE: FACTORY TEE FITTINGS; SECTION 125 NM APWA.
2. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS: FOWLER "QUICKWAY" GENCOO, HERSEY "PIONEER", OR APPROVED EQUAL.
G. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701.3.5 NM APWA.

CM-2 MANHOLES:
A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.05 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.
B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.
C. MANHOLE STEPS: REFER TO SECTION 520.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL BY M.A. INC. OR APPROVED EQUAL; 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.
D. FRAMES AND COVERS:
1. CASTING: SHALL CONFORM TO SECTION 160, 161 & 162, NM. APWA CLASS 30B. (CERTIFICATES AND SHOP DRAWINGS REQUIRED)
2. MINIMUM COVER WEIGHT: 165 POUNDS
3. MINIMUM COMBINED WEIGHT: 355 POUNDS +/- 5%
4. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)
5. COATING: NONE
6. COVER LETTERINGS: SANTA FE, N.M. SANITARY SEWER
7. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER.
8. CASTINGS TOLERANCE: +/- 1/16"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.

CM-3 CONCRETE ENCASEMENT:
A. REQUIREMENTS:
1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.
2. WHEN VITRIFIED CLAY CROSSES AN ARROYO.
3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.
4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.
5. THE SEWER LINE SHALL BE ENCASED IN CONCRETE 6"(IN.) THICK AS DETAILED, AND EXTEND AT LEAST 10'(FT.) ON EACH SIDE OF THE WATER LINE.

NOTE: REVISIONS TO THIS SHEET SHALL BE MADE UNDER THE AUTHORITY OF THE CITY OF SANTA FE ONLY.

INSTALLATION

I-1 LAYING PIPE:
AS PER SECTION 900, NM APWA; PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH; GASKET SHALL BE FULLY SEATED AND NOT SLIPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.
A. IF PIPE TRENCH INSTALLATION CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION PLANS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.
B. TYPE I TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT.) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT.) AND OVER, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.

I-2 MANHOLE CONSTRUCTION:
A. BASE:
1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE.
2. PRECAST UNIT: ON PEA GRAVEL WITH COMPLETE EVEN BEARING
B. PRECAST BARREL:
1. JOINTS: FILL COMPLETELY WITH NON-SHRINK GROUT AND TROWEL
2. MANHOLE ADAPTOR: INSTALL OVER PVC PIPE AND FILL IN PENETRATION WITH NON-SHRINK GROUT.
3. CAST IN PLACE BASES: SHALL ACHIEVE A MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.

I-3 EXCAVATION AND BACKFILL:
AS PER SECTION 700, NM APWA: SATURATION BY FLOODING OR JETTING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. MECHANICAL OR VIBRATORY COMPACTORS SHALL NOT BE USED ON THE BEDDING AND 12"(IN.) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER AASHTO T-180.

FIELD QUALITY CONTROL

FQC-1 TESTING AND INSPECTION:
A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE.
C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.

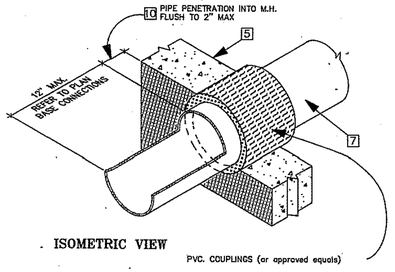
FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURES FROM DESIGN;
A. LINE: 0.20 FOOT
B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD BACK ANY WATER.

FQC-3 LEAKAGE TEST:
AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.

FQC-4 TELEVISION INSPECTION:
CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT HIS OWN EXPENSE.

FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.

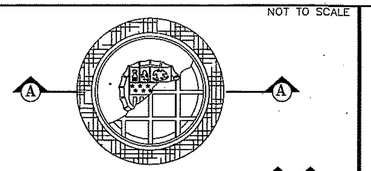
NOT TO SCALE



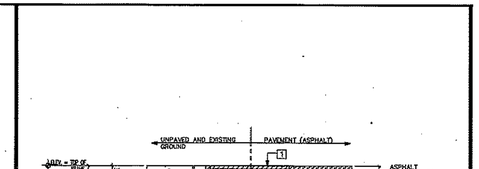
ISOMETRIC VIEW

MANHOLE ADAPTER DETAIL/DWG. # SAS-8 NOT TO SCALE

NOT TO SCALE

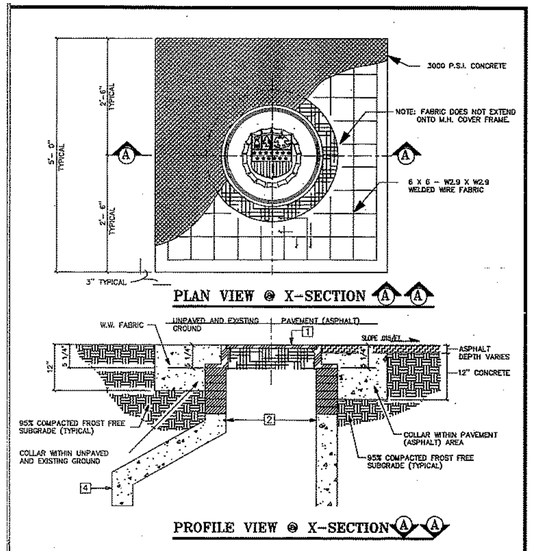


MANHOLE FRAME & COVER DETAIL/DWG # SAS-4

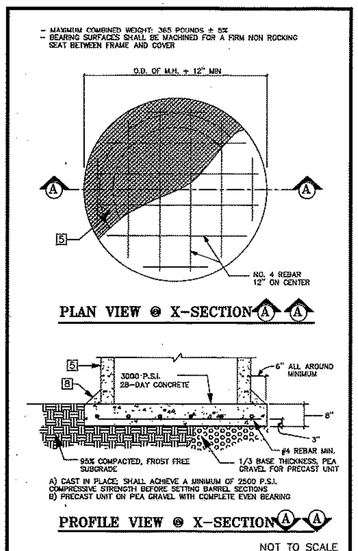


NOT TO SCALE

MANHOLE ADJUSTMENT DETAIL/DWG # SAS-5



CONCRETE COLLAR DETAIL/DWG. # SAS-6 NOT TO SCALE



NOT TO SCALE

CONCRETE BASE DETAIL/DWG. # SAS-7

REV	DATE	DESCRIPTION

1/28/2025

VANCE L WEYNAND NEW MEXICO 29907 PROFESSIONAL ENGINEER

Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 492-8900 www.dhiinc.com
TBPE REG. NO. F-19561

DHI

CASE/PERMIT #: S-2020-2642

VISTAS DE LA SIERRA SUBDIVISION

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3

SANTA FE, NM

SANITARY SEWER DETAILS

DESIGNED BY:	
DRAWN BY:	JWS
DATE:	1/28/2025
JOB NO.:	05004
SHEET NO.	C6.21

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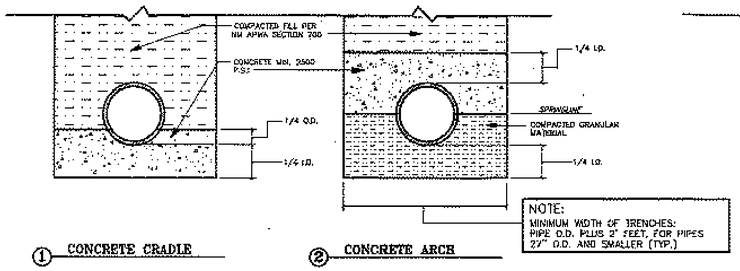
Date: Jan 28, 2025, 11:33am User ID: JWSmart File: E:_PROJECTS\05004 (Vista De La Sierra - Santa Fe)\900 - Design\900 - Sheets\05.20 SANITARY SEWER DETAILS.dwg

TRENCH BEDDING AND INSTALLATION DETAILS/DWG. # SAS-11

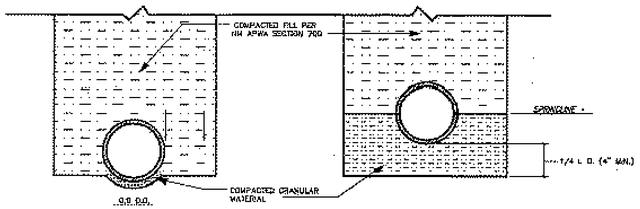
NOT TO SCALE

CLASS "A"



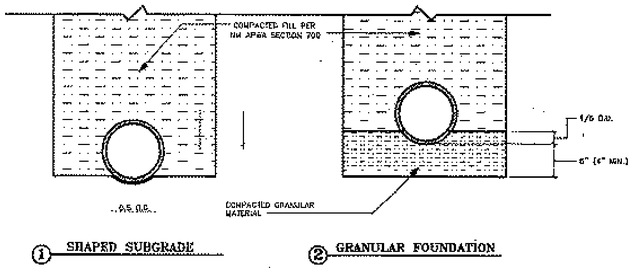
① CONCRETE CRADLE ② CONCRETE ARCH

CLASS "B"

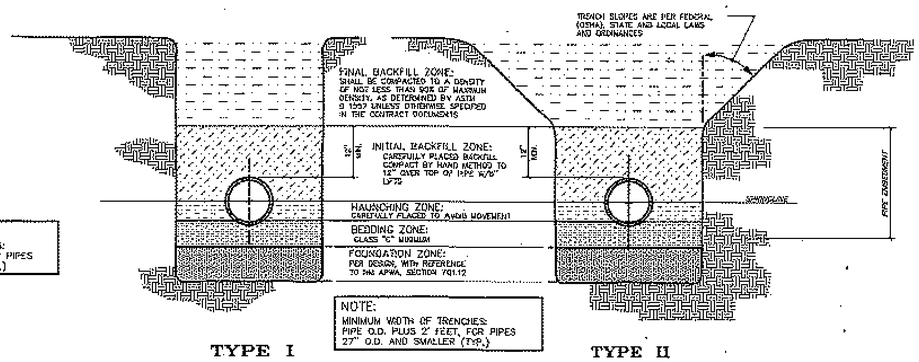


① SHAPED SUBGRADE WITH GRANULAR FOUNDATION ② GRANULAR FOUNDATION

CLASS "C"



① SHAPED SUBGRADE ② GRANULAR FOUNDATION



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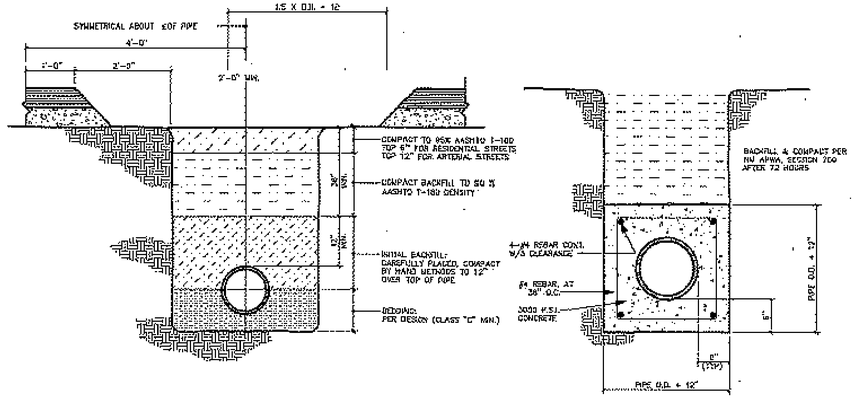


PAVED AREAS CONCRETE ENCASEMENT

GENERAL NOTES

CONSTRUCTION REQUIREMENTS

CR-1 MATERIALS AND WORK:
CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (referred to as NM APWA) WITH MODIFICATIONS NOTED BY THE CITY OF SANTA FE.

CR-2 APPROVED PLANS:
USE PLANS BEARING THE OFFICIAL STAMP OF THE DESIGN ENGINEER AND BEARING THE APPROVAL SIGNATURE OF THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. CONSTRUCTION PERFORMED WITHOUT APPROVED PLANS WILL BE REJECTED.

CR-3 SEWER HOOK-UP PERMIT:
OBTAIN PERMITS FOR THE PROJECT BEFORE COMMENCING ANY SEWER CONSTRUCTION. CONSTRUCTION PERFORMED WITHOUT OBTAINING PERMITS SHALL BE REJECTED.
A. CONSTRUCTION PLANS SHALL INDICATE THE CLASS OF BEDDING TO BE USED. CHANGE OF BEDDING MAY REQUIRE A CHANGE IN PIPE CLASSIFICATION OR WALL THICKNESS.

CR-4 SUBSTITUTIONS OR CHANGES:
ALL SUBSTITUTIONS OR CHANGES MUST BE APPROVED BY THE CITY WATER QUALITY DIVISION OR CITY APPROVED REPRESENTATIVE PRIOR TO CONSTRUCTION. ALL SUBSTITUTIONS OR CHANGES MUST BE SUBMITTED BY THE DESIGN ENGINEER TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE. WHERE APPROPRIATE, SUBMITTAL MUST INCLUDE FABRICATION DRAWINGS, WORKING DRAWINGS AND MATERIAL SPECIFICATIONS OR TEST DATA TO JUSTIFY SUBSTITUTIONS OR CHANGES. DESIGN ENGINEER SHALL AUTHORIZE ANY DRAWINGS FOR SUBSTITUTIONS AND CHANGES AND SUBMIT THEM TO THE CITY WATER QUALITY DIVISION FOR APPROVAL. UNAUTHORIZED SUBMITTALS WILL BE REJECTED.

CR-5 MANUFACTURER'S CERTIFICATES:
WHEN CERTIFICATES OF COMPLIANCE AND TEST REPORTS ARE REQUIRED FOR MATERIALS, DOCUMENTS SHALL BE SUBMITTED TO THE CITY WATER QUALITY DIVISION OR APPROVED REPRESENTATIVE AT THE TIME OF MATERIALS DELIVERY TO THE JOBSITE.

CR-6 CONTRACTOR REQUIREMENTS:
CONTRACTOR PERFORMING WORK ON PUBLIC SEWER LINES SHALL BE A LICENSED UTILITY CONTRACTOR.

CONSTRUCTION MATERIALS

CM-1 SEWER PIPE: (CERTIFICATES REQUIRED)
A. VITRIFIED CLAY: REFER TO SECTION 125, NM APWA FOR EXTRA STRENGTH VCP.
B. PLASTIC (PVC): REFER TO SECTION 121, NM APWA, AS MODIFIED BY THE CITY.
1. UP THRU 10" (IN.) DIAMETER: ASTM D 3034 PIPE.
2. 12 INCH THRU 15" (IN.) DIAMETER: ASTM D 3034 SDR 35 PIPE.
3. LARGER THAN 15" (IN.) DIAMETER: ASTM F 679 VOL. 08.04.
C. PVC RESTRAINED JOINTS: SERIES 1350 OR SERIES 1380 FOR COUPLINGS PRODUCED BY UNI-FLANGE CORPORATION, LOCKING COUPLINGS WITH NYLON SPLINE, MARKETED AS "YELLOWPINE" AND PRODUCED BY CERTAINTEED CORPORATION, OR APPROVED EQUAL.
D. MANHOLE ADAPTERS: ASBESTOS CEMENT (AC) MANHOLE ADAPTERS, OR AC/PVC ADAPTER COUPLINGS.
E. BUILDING SERVICE STUBS: CAST IRON DWV, PVC SCH. 40 DWV.
F. SERVICE CONNECTIONS:
1. VCP PIPE: FACTORY TEE FITTINGS; SECTION 125 NM APWA.
2. PVC PIPE: CAST IRON BODIES TAPPING SADDLE WITH STAINLESS STEEL TENSION STRAP AND FITTINGS: FOWLER "QUICKWAY",GENECO, HERSEY "PIONEER", OR APPROVED EQUAL.
G. SOIL CLASSIFICATION: THE UNIFIED SOIL CLASSIFICATION SYSTEM PER ASTM D 2487 TABLE 701.3.5 NM APWA.

CM-2 MANHOLES:
A. CONCRETE MANHOLES: PRECAST REINFORCED CONCRETE RISERS, REDUCING CONES, AND ADJUSTMENT RINGS PER ASTM C 478 VOL. 04.05. BASES MAY BE FIELD PLACED CONCRETE OR PRECAST CONCRETE PER ASTM C 478 VOL. 04.05 (CERTIFICATES REQUIRED). CRACKED OR VISIBLY DEFECTIVE UNITS WILL BE REJECTED.
B. PIPE PENETRATIONS: PRECAST UNITS SHALL HAVE SUITABLE SIZED OPENINGS CAST INTO BARREL AT PROPER ANGLES FOR PIPE AND MANHOLE ADAPTERS.
C. MANHOLE STEPS: REFER TO SECTION 920.4.7 NM APWA POLYPROPYLENE ENCASED GRADE 60 STEEL BY M.A. INC. OR APPROVED EQUAL; 14"(IN.) WIDE, 16"(IN.) MAXIMUM SPACING.
D. FRAMES AND COVERS:
1. CASTING: SHALL CONFORM TO SECTION 160, 161 & 162, NM, APWA CLASS 30B. (CERTIFICATES AND SHOP DRAWINGS REQUIRED)
2. MINIMUM COVER WEIGHT: 165 POUNDS
3. MINIMUM COMBINED WEIGHT: 365 POUNDS +/- 5%
4. BEARING SURFACES: SHALL BE MATCHED FOR A FIRM NON ROCKING SEAT BETWEEN FRAME AND COVER. MINIMUM SEATING WIDTH: 7/8"(IN.)
5. COATING: NONE
6. COVER LETTERINGS: SANTA FE, N.M. SANITARY SEWER
7. CASTINGS: CAST MANUFACTURER AND MODEL NUMBER ON FRAME AND COVER.
8. CASTINGS TOLERANCE: +/- 1/16"(IN.) PER FOOT OF OVERALL DIMENSION. OUT OF ROUND CASTINGS AND LOOSE FITTING UNITS WILL BE REJECTED IN THE FIELD.

CM-3 CONCRETE ENCASEMENT:
A. REQUIREMENTS:
1. WHEN THE PIPE COVER IS 36" (IN.) OR LESS.
2. WHEN VITRIFIED CLAY CROSSES AN ARROYO.
3. WHEN A WATER LINE PASSES BELOW OR LESS THAN 18" (IN.) ABOVE THE EXISTING SEWER LINE.
4. WHEN A PARALLEL WATER LINE IS LESS THAN 10'(FT.) HORIZONTALLY AND LESS THAN 2'(FT.) ABOVE THE SEWER LINE.
5. THE SEWER LINE SHALL BE ENCASED IN CONCRETE 6"(IN.) THICK AS DETAILED, AND EXTEND AT LEAST 10'(FT.) ON EACH SIDE OF THE WATER LINE.

INSTALLATION

I-1 LAYING PIPE:
AS PER SECTION 900, NM APWA; PIPE SHALL BE PLACED AND BEDDED IN A FROST FREE TRENCH; GASKET SHALL BE FULLY SEATED AND NOT SLIPPED; PIPE SHALL BE LAID THROUGH MANHOLE LOCATIONS ON STRAIGHT AND UP TO 22 1/2 DEGREE DEFLECTIONS.
A. IF PIPE TRENCH INSTALLATION CONFIGURATION EXCEEDS THE LIMITS OF NM APWA STANDARDS, SECTION 700, OR AS DEFINED ON THE CONSTRUCTION PLANS, THE DESIGN ENGINEER WILL SPECIFY THE NEW PIPE CLASSIFICATION OR WALL THICKNESS.
B. TYPE I TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 8'(FT.) OR LESS. TYPE II TRENCH CONFIGURATION IS NORMALLY USED WHEN TRENCH DEPTHS ARE 9'(FT.) AND OVER, DEPENDING ON SOIL CONDITIONS. REFER TO NM APWA STANDARDS SECTION 700.

I-2 MANHOLE CONSTRUCTION:
A. BASE:
1. CAST IN PLACE: ON UNDISTURBED FROST FREE SUBGRADE
2. PRECAST UNIT: ON PEA GRAVEL WITH COMPLETE OVEN BEARING
B. PRECAST BARREL:
1. JOINTS: FILL COMPLETELY WITH NON-SHRINK GROUT AND TROWEL.
2. MANHOLE ADAPTOR: INSTALL OVER PVC PIPE AND FILL IN PENETRATION WITH NON-SHRINK GROUT.
3. CAST IN PLACE BASES: SHALL ACHIEVE A MINIMUM OF 2500 PSI COMPRESSIVE STRENGTH BEFORE SETTING PRECAST BARREL SECTIONS.

I-3 EXCAVATION AND BACKFILL:
AS PER SECTION 700, NM APWA; SATURATION BY FLOODING OR JETTING METHODS IS NOT PERMITTED WITHOUT A SOILS ENGINEERING REPORT RECOMMENDING THESE METHODS. MECHANICAL OR VIBRATORY COMPACTORS SHALL NOT BE USED ON THE BEDDING AND 12"(IN.) OF INITIAL BACKFILL. COMPACTION SHALL BE DETERMINED PER AASHTO T-180.

FIELD QUALITY CONTROL

FQC-1 TESTING AND INSPECTION:
A. SUPERVISION: CONDUCTED BY DESIGN ENGINEER.
B. CERTIFICATION: DESIGN ENGINEER SHALL CERTIFY THAT THE PROJECT HAS BEEN COMPLETED IN ACCORDANCE TO PLANS & SPECIFICATIONS AND SHALL SUBMIT A CERTIFICATION OF COMPLIANCE STATEMENT WITH STAMP AND SIGNATURE.
C. EQUIPMENT AND ASSISTANCE: PROVIDED BY CONTRACTOR.

FQC-2 LINE AND GRADE: ALLOWABLE TOLERANCE BETWEEN STRUCTURES FROM DESIGN;
A. LINE: 0.20 FOOT
B. GRADE: 0.02 FOOT; PIPE SHALL NOT HOLD BACK ANY WATER.

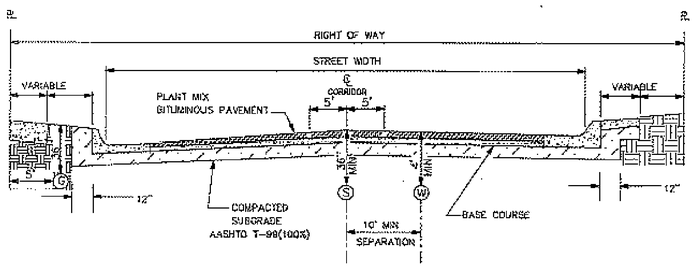
FQC-3 LEAKAGE TEST:
AIR TEST REQUIRED; REFER TO SECTION 901.7 NM APWA.

FQC-4 TELEVISION INSPECTION:
CONTRACTOR SHALL PROVIDE A CERTIFIED CCTV SEWERLINE INSPECTION AND RECORD TAPES AT HIS OWN EXPENSE.

FQC-5 ALL CONNECTIONS TO EXISTING MANHOLES INCLUDES REHABILITATING THE TIE IN MANHOLE TO MEET THESE STANDARD CONSTRUCTION DETAILS.

NOTE: REVISIONS TO THIS SHEET SHALL BE MADE UNDER THE AUTHORITY OF THE CITY OF SANTA FE ONLY.

TYPICAL UTILITIES SEPARATION DETAIL/DWG. # SAS-12

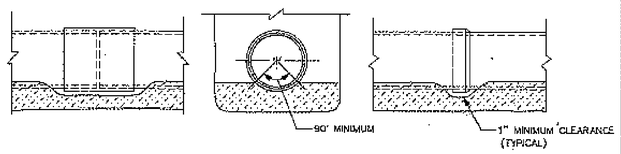


LEGEND

Ⓢ SEWER ℙ PROPERTY LINE
Ⓖ GAS ℄ CENTER LINE
Ⓦ WATER

NOT TO SCALE

BELL OR COUPLING INSTALLATION DETAIL/DWG. # SAS-13



NOT TO SCALE

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 479-8900 www.dhiinc.com
TBPE REG. NO. F-19561

DHI

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3
SANTA FE, NM

SANITARY SEWER DETAILS

REV	DATE	DESCRIPTION

CASE/PERMIT #: S-2020-2642

VISTA DE LA SIERRA SUBDIVISION

1/28/2025

VANCE L WEYNAND NEW MEXICO 29907 PROFESSIONAL ENGINEER

Vance Weynand

DESIGNED BY:	
DRAWN BY:	JWS
DATE:	1/28/2025
JOB NO.:	05004
SHEET NO.	C6.22

DHI ENGINEERING, LLC.

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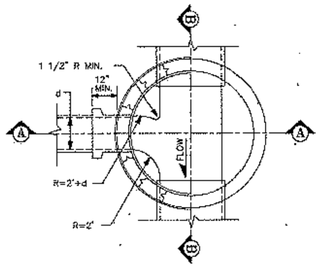
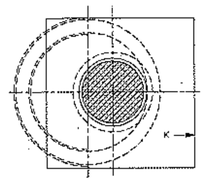


PLAN VIEW @ X-SECTION C C



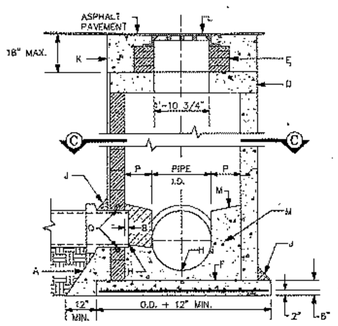
PLAN VIEW @ X-SECTION D D

GENERAL NOTES

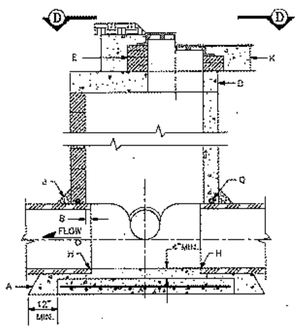
1. USE APPROVED MASTIC JOINT MATERIAL FOR ALL JOINTS.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE "C" M.H. IN LIEU OF TYPE "E" M.H. FOR DEPTHS OF 6' OR MORE.
3. DESIGN APPLIES TO 4', 6' & 8' MANHOLES.
4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTED OF PRECAST CONCRETE SECTION.
5. USE NON-SHRINK GROUT FOR FILLETS AND PENETRATIONS.
6. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES

A. CONCRETE PIPE SUPPORT SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FLEXIBLE PIPE.
B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
D. PRECAST CONCRETE COVER
E. USE MAX. 4 COURSES OR, MS BRICK ON UNPAVED STREET FOR FUTURE ADJ. OF M.H. FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' IN DEPTH.
H. INV. ELEV. OF STUB OR LATERAL AS SHOWN ON PLANS.
J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
K. USE A 5'x 5' CONCRETE PAD IN ALL AREAS SLOPE FOR GRADER USE UNPAVED AREAS.
L. FRAME AND COVER, SEE DWG. # SAS-4
M. CONCRETE FILL, 3000 PSI
N. SLOPE 1" PER FT. FROM PIPE CROWN
P. SHELF TO BE 9" WIDE MIN.
Q. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.



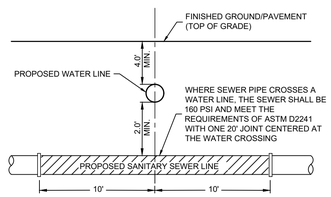
PROFILE VIEW @ X-SECTION A A



PROFILE VIEW @ X-SECTION B B

MANHOLE TYPE "C" DETAIL/DWG. # SAS-14

NOT TO SCALE



TYPICAL SANITARY SEWER/WATER CROSSING DETAIL

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DHI ENGINEERING, LLC.

REV	DATE	DESCRIPTION

1/28/2025

VANCE L WEYNAND
NEW MEXICO
29907
PROFESSIONAL ENGINEER

Vance Weynand

DHI Engineering, LLC.
5419 N. LOOP 1604 EAST
SAN ANTONIO, TX 78247
(210) 496-8100 www.dhiworld.com
TBPE REG. NO. F-19561

DHI

VISTA DE LA SIERRA SUBDIVISION

CASE/PERMIT #: S-2020-2642

VISTAS DE LA SIERRA SUBDIVISION - PHASE 3

SANTA FE, NM

SANITARY SEWER DETAILS

DESIGNED BY:	
DRAWN BY:	JWS
DATE:	1/28/2025
JOB NO.:	05004
SHEET NO.	C6.23

Date: Jan 28, 2025, 11:33am User ID: JWolman File: E:_PROJECTS\05004 (Vista De La Sierra – Santa Fe)\000 – Design\029 – Sheets\C6.23 SANITARY SEWER DETAILS.dwg

DHI ENGINEERING, LLC.

DRAINAGE FACILITIES MAINTENANCE NOTE

1. ALL DRAINAGE FACILITIES SHALL BE MAINTAINED BY ALL PROPERTY OWNERS.
2. INSPECTIONS SHALL BE CONDUCTED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO OR OTHER QUALIFIED PERSON. INSPECTIONS SHALL BE CONDUCTED ON THE DRAINAGE FACILITIES IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
3. ON OR ABOUT MARCH 15, ON OR ABOUT SEPTEMBER 15, AND AFTER EACH STORM EVENT OF 1-INCH OR GREATER. MAINTENANCE OF THE DRAINAGE FACILITIES SHALL BE CONDUCTED AND DOCUMENTED BY THE ENGINEER AND THE OWNER. THE OWNER SHALL MAINTAIN A FILE OF THE INSPECTIONS AND REMEDIAL ACTION CONDUCTED ON THE DRAINAGE FACILITIES.
4. WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE ENGINEER'S RECOMMENDATIONS, AND SHALL INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:
   A. FLUSH ALL CULVERTS, DROP INLETS AND DRAINAGE PIPES TO REMOVE SEDIMENT AND VEGETATION THAT PREVENTS OR HINDERS THE FLOW OF STORM WATER IN THE DRAINAGE STRUCTURE(S).

B. REMOVE SEDIMENT IN PONDS THAT IS GREATER THAN 6-INCHES IN DEPTH, AND IF NECESSARY, RESEED WITH NATIVE GRASSES AND INSTALL FILTER FABRIC AND 3 TO 4 INCH COBBLE AS DIRECTED BY THE ENGINEER.

C. INSPECT FOR SEDIMENTATION IN ALL SWALES, DITCHES, DRAINAGE PONDS AND REMOVE AND STABILIZE AS NECESSARY.

D. INSPECT FOR SOIL EROSION AT ALL DRAINAGE PONDS, CUT AND FILL SLOPES, AND REPAIR OR STABILIZE ACCORDINGLY.

E. INSPECT THE STRUCTURAL INTEGRITY OF DRAINAGE PONDS, SLOPES, RIP-RAP, GABIONS, DROP INLETS, CULVERTS, ENERGY DISSIPATORS, AND RETAINING WALLS, ROCK PLATING, EROSION CONTROL MATS OR BLANKETS, AND REPAIR OR STABILIZE ACCORDINGLY.

5. CHECK THE DEPTH OF SEDIMENT IN PONDS USING THE POND POST AND STAFF GAGE INSTALLED IN EACH POND. REMOVE SEDIMENT IN PONDS THAT IS GREATER THAN 6-INCHES IN DEPTH.

GUNNISON'S PRAIRIE DOG NOTE

1. THE PROJECT SHALL COMPLY WITH THE PROVISIONS OF THE GUNNISION'S PRAIRIE DOG ORDINANCE (ARTICLE 14-8.12).

DUST CONTROL NOTE

ALL ON-SITE SOIL DISTURBING CONSTRUCTION ACTIVITIES SHALL BE ADDRESSED AND PROVIDE MEASURES TO MITIGATE OR CONTROL DUST FROM BEING TRANSPORTED OFFSITE AND POLLUTING NEIGHBORING PROPERTIES.

ANY PERSON, OWNER, CONTRACTOR OR OPERATOR WHO CONDUCTS EARTHMOVING AND/OR DUST GENERATING ACTIVITIES IS RESPONSIBLE FOR IMPLEMENTING BEST MANAGEMENT PRACTICES (BMPS) IN ORDER TO MITIGATE OFF-PROPERTY TRANSPORT OF FUGITIVE DUST EMISSIONS.

A PLAN, OR STORM WATER PREVENTION PLAN (SWPPP) WHEN APPLICABLE, LISTING THE BEST MANAGEMENT PRACTICES (BMPS), SHALL BE PROVIDED TO THE CITY ENGINEER, OR THEIR DESIGNEE FOR REVIEW AND APPROVAL. THE APPROVED BMPS SHALL BE APPLIED TO THE GRADED AND/OR DISTURBED SOIL IN ORDER TO STABILIZE THE SITE.
THE INITIAL BMP SHALL ADDRESS HOW THE CONTRACTOR WILL MINIMIZE THE AMOUNT OF DISTURBED SOIL, AND HOW THE CONTRACTOR WILL STABILIZE THE DISTURBED SURFACE AREA EXPOSED TO WIND OR VEHICLE TRAFFIC DURING CONSTRUCTION.
SOME BMPS SHALL INCLUDE:

- THE REDUCTION OF VEHICLE SPEEDS: ESTABLISH A MAXIMUM SPEED LIMIT OR INSTALL TRAFFIC CALMING DEVICES TO REDUCE SPEEDS TO A RATE TO MITIGATE OFF-PROPERTY TRANSPORT OF DUST ENTRAINED BY VEHICLES.

- THE MINIMIZATION OF DROP HEIGHT: DRIVERS AND OPERATORS SHALL UNLOAD TRUCK BEDS AND LOADER OR EXCAVATOR BUCKETS SLOWLY, AND MINIMIZE DROP HEIGHT OF MATERIALS TO THE LOWEST HEIGHT POSSIBLE, INCLUDING SCREENING OPERATIONS.

- HIGH WINDS RESTRICTION: TEMPORARILY HALT WORK ACTIVITIES DURING HIGH WIND EVENTS GREATER THAN 30 MPH IF OPERATIONS WOULD RESULT IN OFF-PROPERTY TRANSPORT.

- RESTRICT ACCESS: RESTRICT ACCESS TO THE WORK AREA TO ONLY AUTHORIZED VEHICLES AND PERSONNEL.

IN THE EVENT THE ABOVE PRACTICES ARE INEFFECTIVE TO PREVENT OFF PROPERTY TRANSPORT, THE OWNER OR OPERATOR SHALL USE AT ONE OR MORE OF THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPS):

- WET SUPPRESSION: APPLY WATER TO DISTURBED SOIL SURFACES, BACKFILL MATERIALS, SCREENINGS, AND OTHER DUST GENERATING OPERATIONS AS NECESSARY AND APPROPRIATE CONSIDERING CURRENT WEATHER CONDITIONS, AND PREVENT WATER USED FOR DUST CONTROL FROM ENTERING ANY PUBLIC RIGHT-OF-WAY, STORM WATER DRAINAGE FACILITY, OR WATERCOURSE.
- WIND BARRIER: CONSTRUCT A FENCE OR OTHER TYPE OF WIND BARRIER TO PREVENT WIND EROSION OF THE GRADED OR DISTURBED SURFACE.
- VEGETATION: PLANT VEGETATION APPROPRIATE FOR RETAINING SOILS OR CREATING A WIND BREAK.
- SURFACE ROUGHENING: STABILIZE AN ACTIVE CONSTRUCTION AREA DURING PERIODS OF INACTIVITY OR WHEN VEGETATION CANNOT BE IMMEDIATELY ESTABLISHED.
- COVER: INSTALL COVER MATERIALS SUCH AS TACKIFIERS, EROSION CONTROL BLANKETS, GRAVEL, VEGETATION (WHEN APPROPRIATE), COLD-MILLINGS, ETC. DURING PERIODS OF INACTIVITY AND PROPERLY ANCHOR THE COVER.
- SOIL RETENTION: STABILIZE DISTURBED OR EXPOSED SOIL SURFACE AREAS THAT WILL BE INACTIVE FOR MORE THAN 30 DAYS OR WHILE VEGETATION IS BEING ESTABLISHED.

TRAFFIC CONTROL PLAN

CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN PREPARED BY A LICENSED PROFESSIONAL ENGINEER FOR ALL CONSTRUCTION IMPACTING GOVERNOR MILES ROAD, RICHARDS AVENUE AND BECKNER ROAD. PLAN TO BE SUBMITTED AND APPROVED BY CITY PRIOR TO START OF CONSTRUCTION.

CITY OF SANTA FE PUBLIC INFRASTRUCTURE GENERAL CONSTRUCTION NOTES

1. ALL THE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF SANTA FE STANDARD DRAWINGS AND SPECIFICATIONS AS APPLICABLE.
2. UTILITY CONSTRUCTION SHALL CONFORM TO APPLICABLE SECTIONS OF THE APWA'S "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," 1987 EDITION INCLUDING LATEST PUBLISHED AMENDMENTS.
3. INFRASTRUCTURE CONSTRUCTION SHALL CONFORM TO APPLICABLE SECTIONS OF THE NEW MEXICO DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION," 2000 EDITION (SSHBC).
4. THE ORDER OF PRECEDENCE SHALL BE LISTED IN ORDER OF HIGHEST PRECEDENCE, SHALL BE PROJECT SPECIFICATIONS, PLANS, CITY OF SANTA FE STANDARD DRAWINGS, APWASS, AND SSHBC.
5. IN THE CASE OF CONFLICTS BETWEEN PLANS AND SPECIFICATIONS RESOLUTION SHALL BE BY USING THE MORE RESTRICTIVE REQUIREMENT AS DETERMINED BY THE PROJECT ENGINEER AND APPROVED BY CITY PLANNING AND LAND USE DEPARTMENT'S PERMIT AND DEVELOPMENT REVIEW DIVISION TECHNICAL REVIEW STAFF (P&DR).
6. THE PROJECT PLANS SHALL BE APPROVED FOR CONSTRUCTION BY THE P&DR'S ENGINEERING SUPERVISOR PRIOR TO ANY CONSTRUCTION ACTIVITY AND SCHEDULING A PRE-CONSTRUCTION MEETING. THE ENGINEERING SUPERVISOR MAY, BY WRITTEN AUTHORIZATION, DESIGNATE OTHERS TO ADMINISTER DUTIES DESCRIBED HEREIN.
7. THE CONSTRUCTION PROJECT ENGINEER SHALL BE A NEW MEXICO LICENSED PROFESSIONAL ENGINEER IN THE APPROPRIATE CATEGORY FOR THE TYPE OF WORK REPRESENTED BY THE PROJECT PLANS. THE PROJECT ENGINEER SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING PRIOR TO THE START OF CONSTRUCTION OR MOBILIZATION OF EQUIPMENT ON-SITE. AT THE PRE-CONSTRUCTION MEETING, THE PROJECT MANGER SHALL SUBMIT A LETTER PROVIDING THE NAME(S) OF SPECIFIC INDIVIDUALS WHO WILL BE PERFORMING WHAT TYPE OF INSPECTIONS AND RESPECTIVE TELEPHONE CONTACT NUMBER(S); 6585 TO SCHEDULE THE PRE-CONSTRUCTION MEETING A MINIMUM OF 10 CALENDAR DAYS IN ADVANCE OF THE MEETING DATE.
8. ATTENDANCE AT THE PRE-CONSTRUCTION MEETING IS MANDATORY FOR THE PROJECT ENGINEER (WHO SHALL CONDUCT THE MEETING), CONTRACTOR, P&DR'S EROSION AND/OR SEDIMENT CONTROL AND APPLICABLE STAFF FROM CITY STREET, WATER, AND WASTEWATER MANAGEMENT DIVISIONS. THE OWNER AND SUB-CONTRACTORS ARE ENCOURAGED TO ATTEND. AT THIS MEETING, A SPECIFIC P&DR STAFF MEMBER WILL BE ASSIGNED AS THE POINT OF CONTACT WITH THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE A LIST OF CONTACT PERSONNEL RESPONSIBLE FOR SITE CONSTRUCTION INCLUDING POSITION, TELEPHONE NUMBERS, AND AT LEAST ONE EMERGENCY TELEPHONE NUMBER ACTIVE ON A 24-HOUR BASIS.
10. AN EPA NOTICE OF INTENT (NOI) IS APPLICABLE, A COPY OF THE MAILED PERMIT APPLICATION SHALL BE PRESENTED AT THE TIME OF THE PRE-CONSTRUCTION MEETING ALONG WITH A WRITTEN STATEMENT GIVING THE MAILING DATE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL UNDERGROUND UTILITIES DURING THE COURSE OF THE WORK REGARDLESS OF ANY LOCATION SHOWN ON THE PLANS OR OTHER FIELD EVIDENCE, OR LACK THEREOF. NOTIFICATION TO NEW MEXICO ONE CALL AT 1-800-321-2537 FOR UTILITY LOCATES A MINIMUM OF 48 HOURS IN ADVANCE OF ANY EXCAVATION REQUIRED. MAINTENANCE OF UTILITY LOCATES SHALL BE CONTINUED THROUGHOUT THE PROJECT LIFE.
12. THE OWNER SHALL BE RESPONSIBLE FOR ALL CHANGES IN CONSTRUCTION DEEMED NECESSARY FOR ANY REASON SHALL HAVE APPROPRIATE PLANS AND/OR SPECIFICATIONS, INCLUDING APPLICABLE DESIGN CRITERIA, PREPARED BY A NEW MEXICO PROFESSIONAL ENGINEER AND SUBMITTED TO THE CITY ENGINEERING SUPERVISOR FOR APPROVAL. UPON APPROVAL, SAID CHANGES MAY BE INCORPORATED INTO THE PROJECT LIFE.
13. FINAL RECORD DRAWINGS, REFLECTING SUBSTANTIAL CHANGES TO THE ORIGINAL DESIGN DRAWINGS, SHALL BE SUBMITTED BY THE OWNER'S ENGINEER FOR APPROVAL TO THE ENGINEERING SUPERVISOR FOR PERMANENT FILING IN THE CITY PLANNING DEPARTMENT. SAID PLANS SHALL BE APPROVED BY APPLICABLE CITY DIVISIONS PRIOR TO FINAL ACCEPTANCE OF PROJECT WORK FOR MAINTENANCE RESPONSIBILITY AND THE BEGINNING OF THE WARRANTY PERIOD. UNDER NO CIRCUMSTANCES WILL PARTIAL ACCEPTANCE AND/OR WARRANTY COMMENCEMENT BEGIN FOR ANY COMPONENT OF PROJECT SCOPE BE PROVIDED.
14. CURB CUTS SHOWN IN THE ORIGINAL ORIGINAL, APPROVED CONSTRUCTION DRAWINGS WILL REQUIRE A "CURB CUT PERMIT" ISSUED BY THE CITY TRAFFIC ENGINEER PRIOR TO CONSTRUCTION. CURB CUTS FOUND TO BE NECESSARY THAT WERE NOT INCLUDED IN THE ORIGINAL, APPROVED CONSTRUCTION DRAWINGS WILL REQUIRED A CHANGE ORDER THAT INCLUDES A "CURB CUT PERMIT" FROM THE CITY TRAFFIC ENGINEER. CALL 505-955-6646 FOR INFORMATION,
15. PARALLEL WATER AND SANITARY SEWER (SAS) UTILITIES SHALL HAVE A MINIMUM HORIZONTAL SPACING OF 10 FEET AND VERTICAL SPACING OF 3 FEET WHEREIN THE WATER LINE IS ABOVE THE SAS LINE. INSTALLATION WILL BE IN SEPARATE TRENCHES. SHOULD ENCOUNTERED FIELD CONDITIONS EXIST THAT PREVENT MAINTAINING THESE SEPARATION DISTANCES AND RELATIONSHIP, A CHANGE ORDER SHALL BE INITIATED THAT PROVIDES FOR ALTERNATIVE PROTECTIVE MEASURES AND SUBMITTED FOR APPROVAL TO THE ENGINEERING SUPERVISOR VIA THE CITY WATER AND WASTEWATER MANAGEMENT DIVISIONS.
16. SANITARY SEWER LATERAL CONSTRUCTION MUST BE CONSTRUCTED UNDER SEPARATE PERMIT (SECONDARY) FOR SAS HOOKUP. THE CONTRACTOR SHALL OBTAIN THE PERMIT(S) PRIOR TO ANY CONSTRUCTION AND MUST BE OBTAINED AT THE PERMIT DESK AT CITY HALL; PROVIDING STREET ADDRESS FOR EACH HOOKUP. UPON PAYMENT OF FEE(S), THE PERMIT FORM WILL BE IMMEDIATELY GENERATED WHICH SHALL BE KEPT ON-SITE. CALL 505-955-6948 FOR PERMIT INFORMATION AND 505-955-6646 FOR INSPECTION OF EACH VISIBLE, CONNECTED LATERAL.
17. ALL CONTRACTOR WORK ACTIVITY SHALL BE CONFINED TO THE CONSTRUCTION LIMITS OF THE PROJECT. THERE SHALL BE NO ENCROACHMENT ONTO ADJACENT PROPERTIES, EITHER CONSTRUCTION OR MARSHALLING YARD(S) UNLESS LEGAL EASEMENT(S)/AGREEMENT(S) IS/ARE EXECUTED AND APPROVED BY THE ENGINEERING SUPERVISOR.
18. GRADING SHALL BE COMPLETED UNDER THE AUTHORITY OF A BUILDING PERMIT, THE APPLICATION OF WHICH SHALL SHOW THE TYPE OF WORK AS "OTHER" WITH THE NOTATION OF GRADING, LANDSCAPING, AND INFRASTRUCTURE SHOWN THEREON. CALL 505-955-6948 FOR PERMIT INFORMATION.
19. ALL CUT AND FILL SLOPES, INCLUDING SETBACK REQUIREMENTS, SHALL CONFORM TO THE REQUIREMENTS OF:
    A. SANTA FE CITY CODE'S ARTICLE 14-8 (DEVELOPMENT AND DESIGN STANDARDS);
    B. CHAPTER 33 OF THE UNIFORM BUILDING CODE, 1997 EDITION UNLESS OTHERWISE NOTED ON THE APPROVED CONSTRUCTION PLANS; AND
    C. IN THE CASE OF CONFLICT BETWEEN THESE TWO SPECIFICATIONS, CITY CODE SHALL PREVAIL.
20. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
21. MATERIAL QUALITY TESTING SHALL BE COMPLETED BY THE OWNER, THROUGH A RECOGNIZED TESTING LABORATORY. THE LABORATORY SHALL BE UNDER THE AUSPICES OF A NEW MEXICO PROFESSIONAL ENGINEER.
22. ALL MATERIAL QUALITY TEST REPORTS SHALL BE PROVIDED DIRECTLY TO THE CITY PLANNING DEPARTMENT, ATTENTION PERMITS AND DEVELOPMENT REVIEW DIVISION AT P.O. BOX 909, SANTA FE, NEW MEXICO 87504–0909 WITHIN IN SEVEN (7) CALENDAR DAYS AFTER LABORATORY MATERIAL TESTING IS COMPLETE. FIELD TEST REPORTS SHALL BE PROVIDED DIRECTLY TO THE P&DR STAFF ABSENCE, THE REPORTS SHALL BE FAXED TO 505-955-6829. IN EACH CASE, ALL TEST REPORTS AND OTHER COMMUNICATION SHALL CARRY THE APPLICABLE P&DR CASE AND BUILDING PERMIT PROJECT NUMBERS WHICH WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING.
23. PORTLAND CEMENT CONCRETE (PCC) PROPOSED TO BE USED FOR THE PROJECT SHALL CONFORM TO A MIX DESIGN PREPARED BY A NEW MEXICO PROFESSIONAL ENGINEER. THE DESIGN SHALL BE PROVIDED TO P&DR STAFF FOR APPROVAL A MINIMUM OF 14 CALENDAR DAYS PRIOR TO SCHEDULING THE INITIAL CASTING OPERATION OR, ALTERNATIVELY, THE PROJECT PLANS SHALL DEFINE A SPECIFIC MIX HAVING A PRIOR APPROVAL BY P&DR. EACH MIX SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:
    A. COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 CALENDAR DAYS
    B. SEVEN (7.0) BAGS OF CEMENTITEOUS MATERIAL PER CUBIC YARD OF CONCRETE
    C. TWENTY (20.0) PERCENT OR LESS OF FLY ASH MATERIAL SUBSTITUTION FOR CEMENT
    D. MAXIMUM AGGREGATE SIZE OF 3/4"
    E. AIR ENTRAINMENT CONTENT RANGING BETWEEN 4.0 AND 7.0 PERCENT AT THE POINT OF CONCRETE DELIVERY INTO FORMS
24. CONCRETE SAMPLE SET SHALL CONSIST OF A MINIMUM THREE (3) CYLINDERS. ONE SAMPLE SET SHALL BE OBTAINED FOR EACH 500 LINEAR FEET CAST, 50 CAST CUBIC YARDS, OR ONE (1) SET PER CALENDAR DAY, WHICHEVER IS GREATEST. CYLINDERS SHALL BE TESTED AT 7, 28, AND 56 DAY INTERVALS; THE 56 DAY INTERVAL NEED NOT BE TESTED IF ANY PREVIOUS TEST RESULT EXCEEDS THE DESIGN VALUE.
25. TRAFFIC CONTROL DEVICES, AS PER APPROVED PLAN, SHALL BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR. SAID DEVICES SHALL CONFORM TO THE LATEST PUBLISHED EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND TO WRITTEN DIRECTION FROM THE CITY TRAFFIC ENGINEER WHO MAY BE REACHED AT 505-955-6619.
26. SITE EROSION AND SEDIMENT CONTROL, AS PER APPROVED PLAN, SHALL BE INSTALLED, MAINTAINED, AND REMOVED BY THE CONTRACTOR. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SSHBC'S SECTION 603 FOR OTHER REQUIREMENTS RELATING TO DUST ABATEMENT AND SIMILAR ISSUES.
27. UTILITY LINES MUST BE BORED UNDER ALL EXISTING STREET PCC STREET APPURTENANCES. A MINIMUM OF 12" SEPARATION MUST BE MAINTAINED BETWEEN UTILITY LINES. ANY CURB, GUTTER, OR OTHER DAMAGE MUST BE REPAIRED BEFORE FINAL INSPECTION WILL BE GIVEN.
28. EACH CITY UTILITY DIVISION SHALL PROVIDE A LETTER OF COMPLETED INSTALLATION, NOT NECESSARILY ACCEPTED FOR WARRANTY, AT THE CONTRACTOR'S REQUEST. SAID LETTERS SHALL BE PROVIDED TO THE P&DR STAFF AND RECEIVED WRITTEN STAFF ACCEPTANCE PRIOR TO SCHEDULING EITHER TV INSPECTION OF SAS AND STORM SEWER LINES OR PLACEMENT OF ROADWAY PAVEMENT MATERIAL.
29. ASTM, ASSHTO, OR INDEPENDENT LABORATORY CERTIFICATES OF MATERIAL COMPLIANCE ARE TO BE PROVIDED TO P&DR STAFF PRIOR TO BRINGING APPLICABLE MATERIAL ON SITE.
30. AGGREGATE BASE COURSE MATERIAL SHALL CONFORM TO THE SSHBC'S SECTION 304 USING GRADATION I.
31. HOT MIX ASPHALT (HMA) PROPOSED TO BE USED FOR THE PROJECT SHALL CONFORM TO A MIX DESIGN PREPARED BY A NEW MEXICO PROFESSIONAL ENGINEER CONFORMING TO SSHBC'S SECTION 420 USING AGGREGATE CLASSIFICATION(S) CALLED FOR IN THE PROJECT PLANS. THE DESIGN SHALL BE PROVIDED TO P&DR STAFF FOR APPROVAL. A MINIMUM OF 14 CALENDAR DAYS PRIOR TO SCHEDULING THE INITIAL PAVING OPERATION PR, ALTERNATIVELY, THE PROJECT PLANS SHALL DEFINE A SPECIFIC MIX HAVING A PRIOR APPROVAL BY P&DR.
32. COMPACTION TESTING OF SUBGRADE, AGGREGATE BASE COURSE, AND EACH LIFT OF PMBP MATERIAL SHALL BE COMPLETED FOR EVERY 100 LINEAR FEET OF ROADWAY LENGTH EXCEPTING FOR HMA MATERIAL IN WHICH CASE PROVIDE ONE (1) TEST FOR EVERY 100 LINEAR FEET OF LAYDOWN MACHINE PASS.
33. HMA MATERIAL QUALITY TEST QUALITY TEST SAMPLES (WET) SHALL BE OBTAINED AND TESTED FOR EVERY 500 TONS OR FRACTION THEREOF OR ONE (1) SAMPLE PER DAY.
34. UTILITY APPURTENANCE SUCH AS TELEPHONE PEDESTALS, ELECTRICAL TRANSFORMERS, GAS, AND CABLE TV PEDESTALS SHALL BE PLACED OUTSIDE THE PUBLIC RIGHT-OF-WAY AND WITHIN UTILITY EASEMENTS. THE OWNER IS RESPONSIBLE FOR RELOCATING MIS-PLACED UTILITY STRUCTURES PRIOR TO REQUESTING A PRE-FINAL INSPECTION. WATER METER BOXES AND FIRE HYDRANTS MAY BE PLACED BETWEEN THE SIDEWALK AND CURB. WATER VALVE AND METER BOXES ARE NOT TO BE PLACED WITHIN MAINTENANCE AREAS OF SEMI-IMPROVED (GRAVEL OR EQUAL) ROADS.
35. CONSTRUCTION DEBRIS AND/OR EXCESS MATERIAL SHALL BE STORED IN AN ON-SITE AREA AND APPROPRIATELY CONTAINED. SAID DEBRIS SHALL NOT BE A NUISANCE TO THE SURROUND NEIGHBORHOOD. DISPOSAL OF DEBRIS SHALL BE EITHER WITHIN THE CITY LIMITS UNDER SEPARATE GRADING PERMIT OR AT A DESIGNATED NMED APPROVED DISPOSAL SITE. CONTRACTOR SHALL PROVIDE WRITTEN NOTICE AS TO PROPOSED DEBRIS DISPOSAL SITE LOCATION(S). ALL DEBRIS AND/OR EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE PRIOR TO SCHEDULING A PRE-FINAL INSPECTION WI P&DR STAFF.
36. THE CONTRACTOR SHALL MAKE A WRITTEN REQUEST FOR A PRE-FINAL INSPECTION OF TERRAIN MANAGEMENT AND INFRASTRUCTURE WORKS A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE WITH P&DR STAFF. AT THIS INSPECTION, APPLICABLE CITY DIVISION STAFF WILL REVIEW THE FINAL WORK PRODUCT. ANY DEFICIENCIES WILL BE NOTED IN A "PUNCHLIST" AND PROVIDED TO THE CONTRACTOR FOR CORRECTION. WHEN ALL PUNCHLIST ITEMS ARE COMPLETED THE CONTRACTOR SHALL FILE A WRITTEN STATEMENT TO THAT EFFECT AND A FINAL INSPECTION WILL BE HELD BY P&DR STAFF. UPON "ACCEPTANCE", AN ACCEPTANCE LETTER WILL BE PROVIDED WHEREIN ALL WORK WILL BE ACCEPTED FOR MAINTENANCE BY THE CITY AND THE COMMENCEMENT OF THE WARRANTY PERIOD INITIATED.
37. THE R-VALUE FOR THIS PROJECT SHALL NOT BE LESS THAN 50.

SANITARY SEWER GENERAL NOTES

1. PRIOR TO THE WASTEWATER MANAGEMENT DIVISION APPROVAL OF THE PLAN SET, A LETTER WILL BE REACQUIRED FROM THE PROJECT ENGINEER INDICATING THEY ARE PROVIDING THE INSPECTION AND RECORD DRAWING SERVICES FOR THE PROJECT.
2. THE CONTRACTOR MUST OBTAIN ALL SEWER HOOKUP PERMITS FROM THE CITY'S BUILDING PERMITS SECTION (SEWER LINES) PRIOR TO COMMENCING ANY SEWER LINE CONSTRUCTION. A COPY OF THE PERMIT MUST BE KEPT AT THE CONSTRUCTION SITE.
3. ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "STANDARD MANHOLE DETAIL SHEET" SHOWN ON THE CITY STANDARD DRAWINGS.
4. A COPY OF THE APPROVED PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORK HOURS.
5. SUBMITTALS FOR SEWER REMOVAL AND RECONSTRUCTIONS PLANS TO BE SUBMITTED FIRST TO THE ENGINEER OF RECORD FOR APPROVAL AND THEN TO THE CITY WASTEWATER DIVISION APPROVAL PRIOR CONSTRUCTION.
6. ADDITIONAL GENERAL NOTES ARE CONTAINED IN THE STANDARD CITY DETAIL SHEETS FOR SANITARY SEWER CONSTRUCTIONS.
7. ALL PUBLIC GRAVITY SEWER LINES SHALL BE A MINIMUM CLASS C BEDDING (2006 NEW MEXICO AMERICAN PUBLIC WORKS ASSOCIATION).
8. ALL 4 INCH AND 6 INCH DIAMETER GRAVITY SEWER PIPE SHALL BE PRIVATE. NO PRIVATE SEWER SYSTEM SHALL USE LARGER THAN A 6 INCH DIAMETER PIPE. NO PUBLIC GRAVITY SEWER LINE TO BE ACCEPTED BY THE CITY OF SANTA FE FOR PERMANENT MAINTENANCE SHALL BE LESS THAN 8 INCHES DIAMETER.
9. NO CONCRETE ENCASEMENT OF NEW OR EXISTING PUBLIC SEWER PIPE WILL BE ALLOWED UNLESS APPROVED BY THE CITY OF SANTA FE WASTEWATER MANAGEMENT DIVISION.
10. CORE DRILLING IS REACQUIRED FOR ALL NEW CONNECTIONS TO AN EXISTING MANHOLE.
11. NO PUBLIC SEWER MAIN LINE OR MANHOLE WILL BE ALLOWED UNDER OR WITHIN A STORM WATER DETENTION/RETENTION POND.
12. PRIOR TO PAVING OVER ANY SANITARY SEWER LINES, SUBMIT T.V. TAPES AND LOGS, PRESSURE TESTS, AND THE ENGINEER'S CERTIFICATION TO THE CITY'S WASTEWATER MANAGEMENT DIVISION. AFTER THE WASTEWATER MANAGEMENT DIVISION REVIEWS THE ABOVE LISTED INFORMATION, A PRELIMINARY MANHOLE INSPECTION WILL BE CONDUCTED. WHEN ALL THE ITEMS LISTED BELOW ARE COMPLETED TO MEET THE STANDARDS OF THE WASTEWATER MANAGEMENT DIVISION, A LETTER APPROVING PAVING WILL BE ISSUED IN RELATION TO THE SANITARY SEWER. NOTE: A FINAL MANHOLE INSPECTION WILL BE CONDUCTED AFTER THE FINAL PAVING IS COMPLETED.
13. ALL SEWER MANHOLES WITH SEWER LINES 12 INCHES IN DIAMETER AND LARGER ARE REQUIRED TO HAVE APPROVED VENTED AND LOCKING MANHOLE COVERS.
14. LOCATE WIRES SHALL BE INSTALLED FOR ALL THE SANITARY SEWERS (GRAVITY/FORCE MAINS). THE LOCATE WIRE MUST BE VISIBLE IN THE MANHOLE OR ACCESS STRUCTURE. THIS WILL BE VERIFIED DURING THE PRELIMINARY MANHOLE INSPECTION PRIOR TO PAVING. THE LOCATE WIRE IS TO BE CONTINUOUS, 12 GAUGE, SOLID STRAND INSULATED COPPER WIRE.
15. OFF-ROAD PUBLIC SEWER ACCESS WILL BE PROVIDED FOR ALL PUBLIC SEWER LINES AND MANHOLES. ACCESS ROADS ARE TO BE A MINIMUM 12 FEET WIDE WITH A DRIVING SURFACE OF 6 INCHES OF COMPACTED BASE COURSE. NO ACCESS ROAD SHALL HAVE A GRADE GREATER THAN 15%. MANHOLES ARE TO BE ALIGNED WITH THE CENTER LINE OF THE ACCESS ROAD. SEWER EASEMENTS ARE TO BE A MINIMUM OF 20 FEET IN WIDTH.
16. OFF ROAD SANITARY SEWER - CALL THE WASTEWATER MANAGEMENT DIVISION AT 505-955-4650 FOR A FIELD REVIEW OF THE GRADING OF ALL OFF ROAD SANITARY SEWER TO ENSURE THAT THE CITY'S MAINTENANCE VEHICLES CAN ACCESS ALL MANHOLES, THE GRADES MAY BE REQUIRED TO BE ADJUSTED BASED UPON A FINAL INSPECTION BY THE WASTEWATER MANAGEMENT DIVISION AND THE PROJECT ENGINEER.
17. FOR RECORD DRAWINGS, TIE MANHOLE TO A CITY OF SANTA FE SURVEY MONUMENT AS PART OF THE FINAL RECORD DRAWINGS. SHOW CORRECTED AS-BUILT BEARING AND DISTANCES, SLOPES, RIM AND INVERT ELEVATIONS AND SEWER SERVICES ALONG THE HORIZONTAL ALIGNMENT OF THE SEWER SERVICES ALONG THE HORIZONTAL ALIGNMENT OF THE SANITARY SEWER. FOR RECORDS DRAWINGS, A SEPARATE SUMMARY TABLE ADDED TO THE EXISTING PLAN SHEETS OR AS AN ADDITIONAL SHEET SHALL BE REQUIRED. THE SUMMARY SHEET SHALL LIST DATA FOR THE SEWER LINE SEGMENTS BETWEEN MANHOLES SHOWING THE UPSTREAM AND DOWNSTREAM MANHOLE WITH THE DESIGN SEGMENT LENGTHS, SLOPES AND BEARINGS AND THE AS-BUILT SEGMENT LENGTHS, SLOPES AND BEARINGS. THE SUMMARY SHEET SHALL INDICATE THE TOTAL NUMBER OF NEW PUBLIC MANHOLES CONSTRUCTED, THE TOTAL NUMBER OF NEW PUBLIC MANHOLES CONSTRUCTED, THE TOTAL NUMBER OF CONNECTIONS TO EXISTING PUBLIC MANHOLES, THE TIE TO A CITY CONTROL MONUMENT AND THE TOTAL LENGTH OF AS-BUILT PUBLIC SEWER LINE CONSTRUCTED BY SIZE.
18. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR MAINTAINING, REPAIRING AND LOCATING THE SEWER SYSTEM UNTIL CITY ACCEPTANCE FOR MAINTENANCE. DAMAGES RESULTING FROM A STOPPAGE IN ANY GRAVITY AND/OR PRESSURE SEWER SYSTEM WILL BE THE SOLE RESPONSIBILITY OF THE OWNER/DEVELOPER UNTIL A FINAL ACCEPTANCE LETTER FOR PERMANENT MAINTENANCE HAS BEEN ISSUED BY THE WASTEWATER MANAGEMENT DIVISION.
19. WATER METERS WILL NOT BE PLACED UNTIL A FINAL ACCEPTANCE LETTER HAS BEEN ISSUED BY THE WASTEWATER DIVISION FOR ALL ON-SIRE SANITARY SEWER NEEDED IN ORDER FOR THE PROJECT TO CONNECT TO THE SANITARY SEWER SYSTEM.
20. 20 FOOT WIDE ACCESS GATES SHALL BE PROVIDED AT ALL FENCES, WALLS OR OTHER OBSTRUCTIONS THAT CROSS A PUBLIC SEWER LINE. ACCESS GATES TO BE LOCATED WITHIN THE SANITARY SEWER EASEMENT.
21. THE OWNER/DEVELOPER WILL BE RESPONSIBLE FOR LOCATING EACH SEWER SERVICE AT THE TIME EACH LOT IS READY TO CONNECT TO THE SEWER, IT IS SUGGESTED THAT THE OWNER/DEVELOPER RETAIN A COPY OF THE TELEVISION INSPECTION VIDEO ALONG WITH THE VIDEO LOGS. EACH SERVICE SHALL BE CLEARLY MARKED FOR EACH LOT AR POINT OF CONNECTION. ALL CALLS RECEIVED BY THIS DIVISION REGARDING THE LOCATION OF SERVICE WILL BE FORWARDED TO THE OWNER/DEVELOPER.
22. THE CONTRACTOR SHALL CALL THE WASTEWATER MANAGEMENT DIVISION (MICHAEL DOZIER AT TELEPHONE # (505)-955-4642) FOR A FINAL MANHOLE INSPECTION. THIS INSPECTION WILL BE ISOLATED TO THE MANHOLES. THE CITY'S PLUMBING AND MECHANICAL INSPECTORS WILL CONDUCT ALL OTHER NECESSARY PLUMBING INSPECTIONS. NOTE: THE CITY'S PLUMBING AND MECHANICAL INSPECTORS WILL INSPECT THE INDIVIDUAL SEWER SERVICE TAPS AND LATERALS, WHICH CONNECT TO THE PUBLIC SANITARY SEWER.
23. THE EXISTING SANITARY SEWER LINE MUST BE T.V. TAPED PRIOR TO A NEW SERVICE CONN