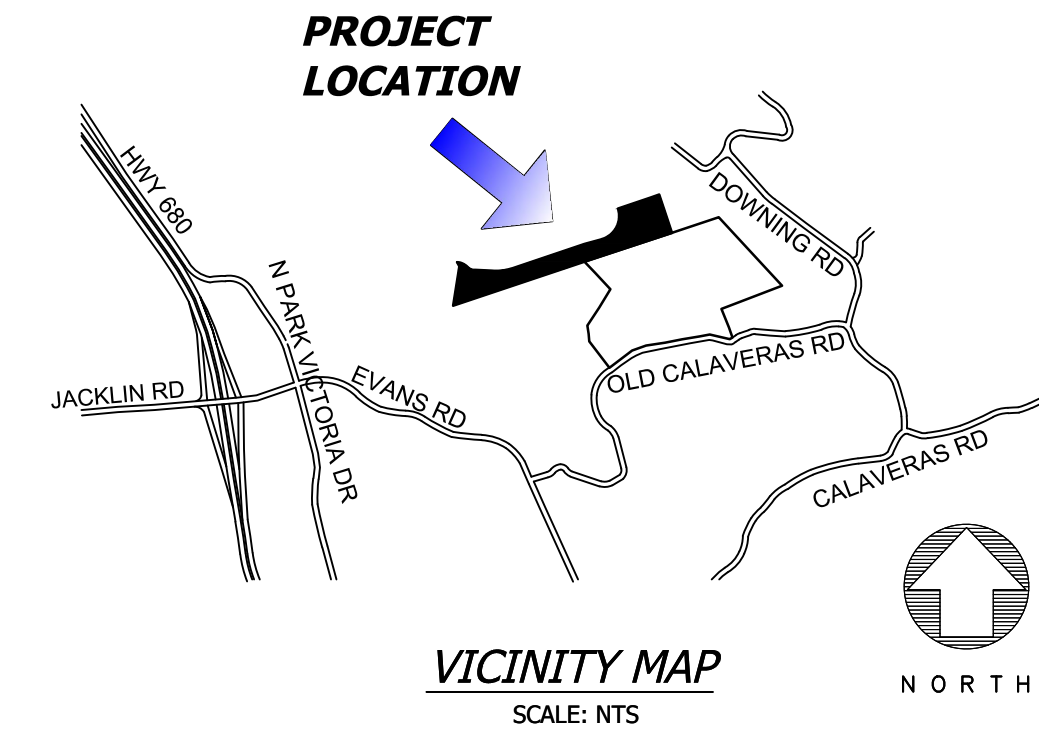


# BARSANA RESIDENCE

## APN: 029-35-007



### INDEX OF SHEETS

- CO.1 - COVER SHEET
- CO.2 - PROPOSED EASEMENT
- CO.3 - PROPOSED EASEMENT
- C1.0 - EXISTING ACCESS ROAD PLAN
- C1.1 - EXISTING ACCESS ROAD PLAN & PROFILE
- C1.2 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.3 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.4 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.5 - PROPOSED ACCESS ROAD PLAN & PROFILE
- C1.6 - EXISTING INFILTRATION POND PLAN
- C1.7 - EXISTING INFILTRATION POND SECTION
- C1.8 - TRIBUTARY AREA MAP
- C2.0 - ENLARGED SITE PLAN
- C2.1 - PROFILES/SECTIONS
- C3.0 - OVERALL SITE PLAN & CUT/FILL ANALYSIS
- C3.1 - CUT/FILL SECTIONS
- C3.2 - CUT/FILL SECTIONS
- C3.3 - CUT/FILL SECTIONS
- C4.1 - DETAILS
- C4.2 - DETAILS
- C5.1 - EROSION CONTROL
- C6.1 - ALTERNATE SITE PLAN
- P01 - 0' AND 5' LVL PLAN
- P02 - 12' LVL PLAN
- P03 - AREA CALCULATION
- P04 - SECTIONS
- P05 - ELEVATIONS
- P06 - VIEWS
- A01 - FLOOR PLAN
- A02 - ELEVATIONS
- A03 - SECTIONS
- A04 - VIEWS
- WW1 - PRELIMINARY OWTS DISPOSAL PLAN
- LSS 01 - LIVESTOCK SHELTER FLOOR PLAN
- LSS 02 - LIVESTOCK SHELTER ELEVATIONS
- LSS 03 - LIVESTOCK SHELTER SECTIONS
- LSS 04 - LIVESTOCK SHELTER VIEWS

### NOTES

A.P.N. 029-35-007  
 PRESENT USE: AGRICULTURE/RANCH LAND  
 PROPOSED USE: AGRICULTURE/RANCH LAND  
 PRESENT ZONING: HS-D2  
 PROPOSED ZONING: HS-D2  
 SANITARY SEWER: SEPTIC  
 WATER SUPPLY: PRIVATE WELL  
 GAS & ELECTRIC: P.G. & E.  
 TELEPHONE: A.T.&T.  
 EXISTING IMPROVEMENTS: NONE  
 TOTAL PROJECT ACREAGE: 15.768 ACRES

### GENERAL NOTES

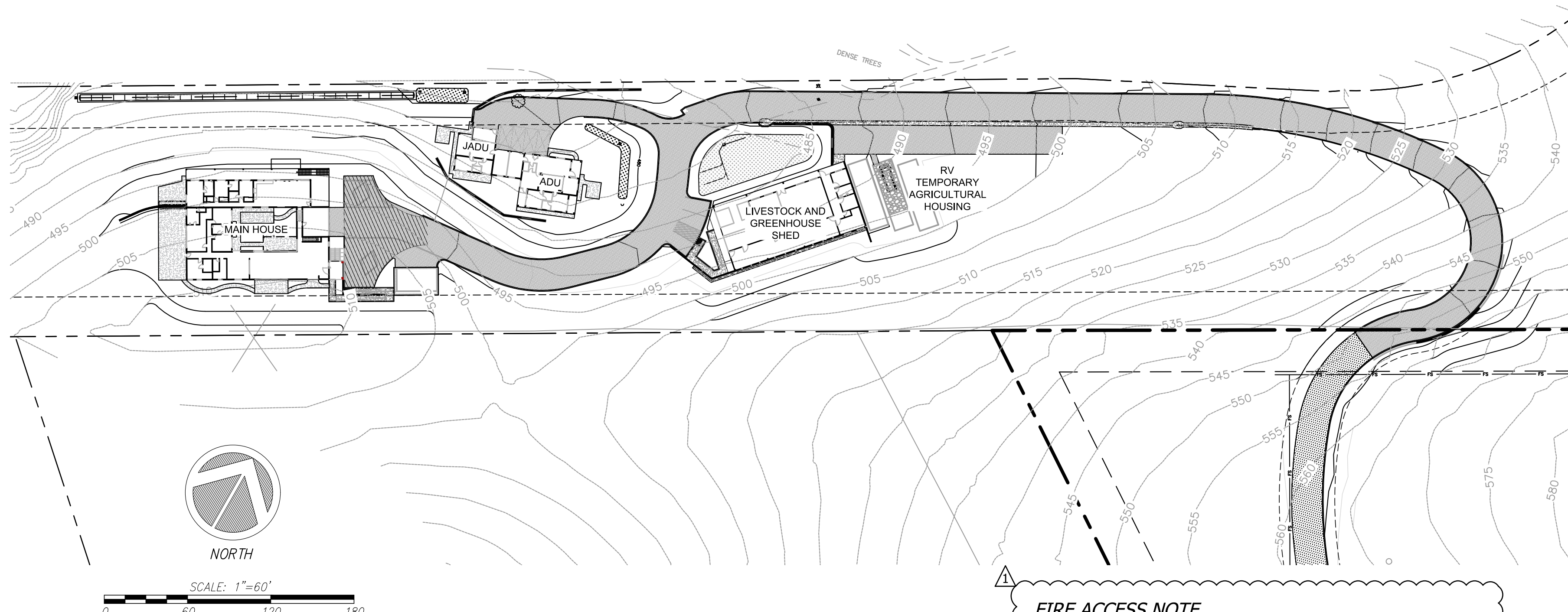
NO CHANGE TO THE GRADING PLAN SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE OWNER OR OWNERS REPRESENTATIVES.

CONTRACTOR SHALL VERIFY LOCATIONS, ELEVATIONS AND INVERTS OF EXISTING UTILITY PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY OWNER OR OWNERS REPRESENTATIVES OF VARIANCE FROM THOSE SHOWN ON THE PLANS.

UNDERGROUND FACILITIES AND UTILITIES HAVE BEEN SHOWN BASED ON RECORD DRAWINGS AND VISIBLE EVIDENCE FOUND IN FIELD. NO WARRANTY IS MADE REGARDING THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION. PRIOR TO CONSTRUCTION, DETERMINE THE EXACT LOCATION OF UNDERGROUND FACILITIES AND UTILITIES, AND PRESERVE SAME FROM DAMAGE. PRIOR TO CONSTRUCTION, VERIFY LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AT THE CROSSING POINTS WITH PROPOSED UTILITIES. THE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNERS REPRESENTATIVES IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITION HAS BEEN EVALUATED. CONTACT UNDERGROUND SERVICES ALERT (USA) (1-800-227-2600) TWO (2) WEEKS PRIOR TO DIGGING. REPAIR UNDERGROUND UTILITIES DAMAGED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES ASSOCIATED WITH CONTRACTOR'S FAILURE TO EXACTLY LOCATED AND PRESERVE UNDERGROUND FACILITIES AND UTILITIES.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH THE APPROPRIATE UTILITY COMPANIES AND/OR AGENCIES TO VERIFY THE EXISTENCE AND/OR LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY U.S.A. @ (800) 227-2600 AT LEAST 48-HOURS IN ADVANCE OF EXCAVATION.

IF ANY INDICATIONS OF ARCHEOLOGICAL REMAINS ARE ENCOUNTERED DURING GRADING ACTIVITIES FOR ANY DEVELOPMENT WITHIN THE PROJECT SITE, ALL WORK SHALL BE HALTED WITHIN 200 FOOT RADIUS OF THE FIND. OWNER SHALL RETAIN A QUALIFIED ARCHEOLOGIST RETAINED TO DETERMINE THE NATURE OF THE DISCOVERY AND RECOMMEND APPROPRIATE EVALUATION PROCEDURES.



### OWNER/DEVELOPER:

BARSANA LLC,  
 40762 GREYSTONE TERRACE  
 FREMONT, CA 94538  
 PHONE: (216) 496-9596  
 EMAIL: vijay.datt@inf-usa.org

### CIVIL ENGINEER:

C2G/CIVIL CONSULTANTS GROUP, INC  
 4444 SCOTT'S VALLEY DRIVE STE. 6  
 SCOTT'S VALLEY, CA 95066  
 OFFICE: (831) 438-4420

### SURVEYOR

ALPHA LAND SURVEYS, INC.  
 4444 SCOTT'S VALLEY DRIVE STE. 7  
 SCOTT'S VALLEY, CA 95066  
 OFFICE: (831) 438-4453

### SCOPE

- MULTIPLE SMALL STRUCTURES TO BE BUILT INCLUDING THE MAIN SINGLE FAMILY RESIDENCE WITH GARAGE, JADU WITH ADU, AND LIVESTOCK AND GREENHOUSE SHED. FOR MORE DETAILS AND SECTIONS FOR THE PROPOSED STRUCTURES PLEASE REFERENCE TO THE ARCHITECTURAL PLANS FOR THE PROPOSED SITE.

PROPOSED STRUCTURE SIZES  
 -PROPOSED MAIN BUILDING AND GARAGE = 7,974 SQ FT  
 -PROPOSED DETACHED GARAGE = 640 SQ FT  
 -PROPOSED JADU & ADU = 2,100 SQ FT  
 -PROPOSED LIVESTOCK AND GREENHOUSE SHED = 3,750 SQ FT  
 -PROPOSED RV TEMPORARY AGRICULTURAL RESIDENCE = 397 SQ FT

(N) IMPERVIOUS AREAS TABLE			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
EXISTING	0	0	0
MAIN BUILDING & GARAGE	10,599	0.243	0.243
JADU & ADU	3,862	0.089	0.089
AC ROAD	27,776	0.638	0.638
CONCRETE VALLEY GUTTER	1,291	0.030	0.030
LIVESTOCK AND GREENHOUSE SHED	5,205	0.119	0.119
CONCRETE WALKWAY	791	0.018	0.018
AC PARKING	4,217	0.097	0.097
GRAVEL BASEROCK (PARKING)	266	0.006	0.004
TOTAL (N) IMPERVIOUS AREA	54,008	1.240	1.238
TOTAL LOT AREA	686,854	15.768	15.768
IMPERVIOUS % OF TOTAL LOT			15.7%

IMPERVIOUS AREA IN APN 029-34-004			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
NEW ASPHALT ROAD	18,259	0.419	0.419

NOTE: EXISTING GRAVEL ROAD TO BE ASPHALTED PER 2022 RECLAMATION PLAN AMENDMENT FROM STATION 5+50 TO 15+26

### FIRE ACCESS NOTE

FIRE DEPARTMENT ACCESS SHALL BE MADE OF AN "ALL WEATHER" MATERIAL CAPABLE OF HOLDING 75,000 POUNDS.

### DEFERRED SUBMITAL NOTE

THE FOLLOWING SHALL BE DEFERRED AND SUBMITTED SEPARATELY FROM THIS APPLICATION:  
 A. RESIDENTIAL FIRE SPRINKLERS.  
 B. FIRE PROTECTION UNDERGROUND (STANDARD FIRE HYDRANT).

### BUILDING SITE APPROVAL SLOPE CALCULATIONS

$$S = \frac{I * L}{A} (100)$$

S = AVERAGE SLOPE OF THE AREA IN PERCENT  
 I = IS THE CONTOUR INTERVAL IN FEET  
 L = IS THE COMBINED LENGTH OF CONTOUR LINES IN FEET  
 A = SITE DEVELOPMENT AREA IN SQUARE FEET

PROPOSED DEVELOPED AREA FOR LOT

$$S = \frac{1 * 30,251}{158,412 \text{ SQ.FT.}} (100) = 19.10\% \text{ AVE. SLOPE}$$

### PROJECT EARTHWORK QUANTITIES

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECONSTRUCTION, UTILITY TRENCH SPILLS & SOIL EXPANSION AND CONTRACTION FACTORS.

DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
MAIN RESIDENCE BLDG + 5' PERIMETER	773	279	494(C)	10.6	4.6
MAIN RESIDENCE SITE GRADING & DWY	2528	518	2010(C)	10.8	5.7
ADU/JADU BLDG + 5' PERIMETER	161	87	74(C)	5.6	4.0
ADU/JADU SITE GRADING & DWY	563	953	390(F)	7.2	7.3
ROAD (APN 029-35-007)	527	1826	1299(F)	8.4	7.7
ROAD (APN 029-34-004)	1870	3101	1231(F)	9.0	9.3
LIVESTOCK AND GREENHOUSE SHED RV PARKING + 5' PERIMETER	479	164	315(C)	7.0	3.2
LIVESTOCK AND GREENHOUSE SHED SITE GRADING AND DWY	712	646	66(C)	7.0	5.4
TOTAL	7613	7574	39(C)		

NET VOLUME = 39 CU.YDS. OF CUT

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

### CONTRACTOR RESPONSIBILITY

CONTRACTOR AGREES THAT HE SHOULD ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, AND THAT REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED DURING WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE DESIGN PROFESSIONALS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.

### DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE DESIGN PROFESSIONAL FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

### CONSTRUCTION SURVEYING / STAKING

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL SURVEYING AND OR STAKING BY A LICENSED SURVEYOR FOR ALL CONSTRUCTION PURPOSES.

### ADDITIONAL NOTES

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

- THE STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION, OF THE COUNTY OF SANTA CLARA SHALL GOVERN UNLESS OTHERWISE SPECIFIED HEREIN.

### UNAUTHORIZED CHANGES AND USES

CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THE PLANS

### FIRE PROTECTION NOTES

- ALL DRIVEWAYS AND ACCESS ROADS TO MEET COUNTY STANDARD SD1.
- ALL DRIVEWAYS, ACCESS ROAD, AND PARKING LOTS TO BE MADE OF AN ALL WEATHER SURFACE CAPABLE OF SUPPORTING 75,000 POUNDS AND HAVE A MAXIMUM SLOPE OF 16%.
- WATER TANKS TO HAVE A MINIMUM HEIGHT OF 12 FEET AND MEET STANDARDS SET IN CFMO W2 & W5. TANKS GREATER THAN 12 FEET IN HEIGHT WILL REQUIRE A SEPARATE BUILDING PERMIT.
- FIRE HYDRANT SHALL MEET STANDARDS SET IN CFMO-W2.
- WATER TANK SHALL BE SIZED PER NFPA 1142 TO INCLUDE SPRINKLER DEMAND AND HYDRANT DEMAND.
- ALL STRUCTURES SHALL MEET WILDLAND URBAN INTERFACE (WUI) REQUIREMENTS AT BUILDING PERMIT SUBMITTAL
- NFPA 13 FIRE SPRINKLERS SHALL BE INSTALLED IN ALL BUILDINGS AND WILL BE A DEFERRED SUBMITTAL.
- ALL DEFERRED SUBMITTALS FOR FIRE PROTECTION UNDERGROUND, FIRE HYDRANTS, WATER TANKS, & FIRE PUMP.
- PROPERTY TO MAINTAIN 100 FEET DEFENSIBLE SPACE AT ALL TIMES.
- STRUCTURES SHALL CONFORM TO WUI BUILDING REQUIREMENTS.

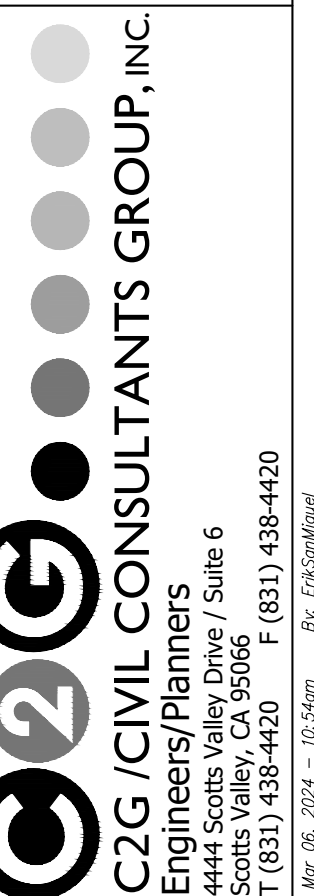
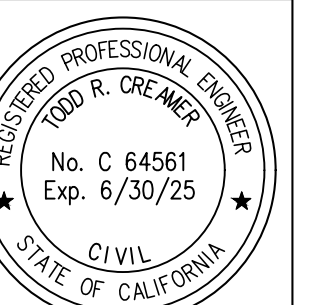
ALL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES AND THE CODES LISTED BELOW OR THE MOST CURRENT CODES AND ORDINANCES AT THE TIME OF SUBMITTAL

### 2022 CALIFORNIA CODES

- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA GREEN CODE
- 2022 CALIFORNIA ENERGY CODE
- 2022 CALIFORNIA RESIDENTIAL CODE
- 2022 CALIFORNIA FIRE CODE

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

COVER SHEET



BARSANA RESIDENCE  
 AUGUSTE COURT  
 APN: 029-35-007

Date: 09/27/23

Scale: 1" = 60'

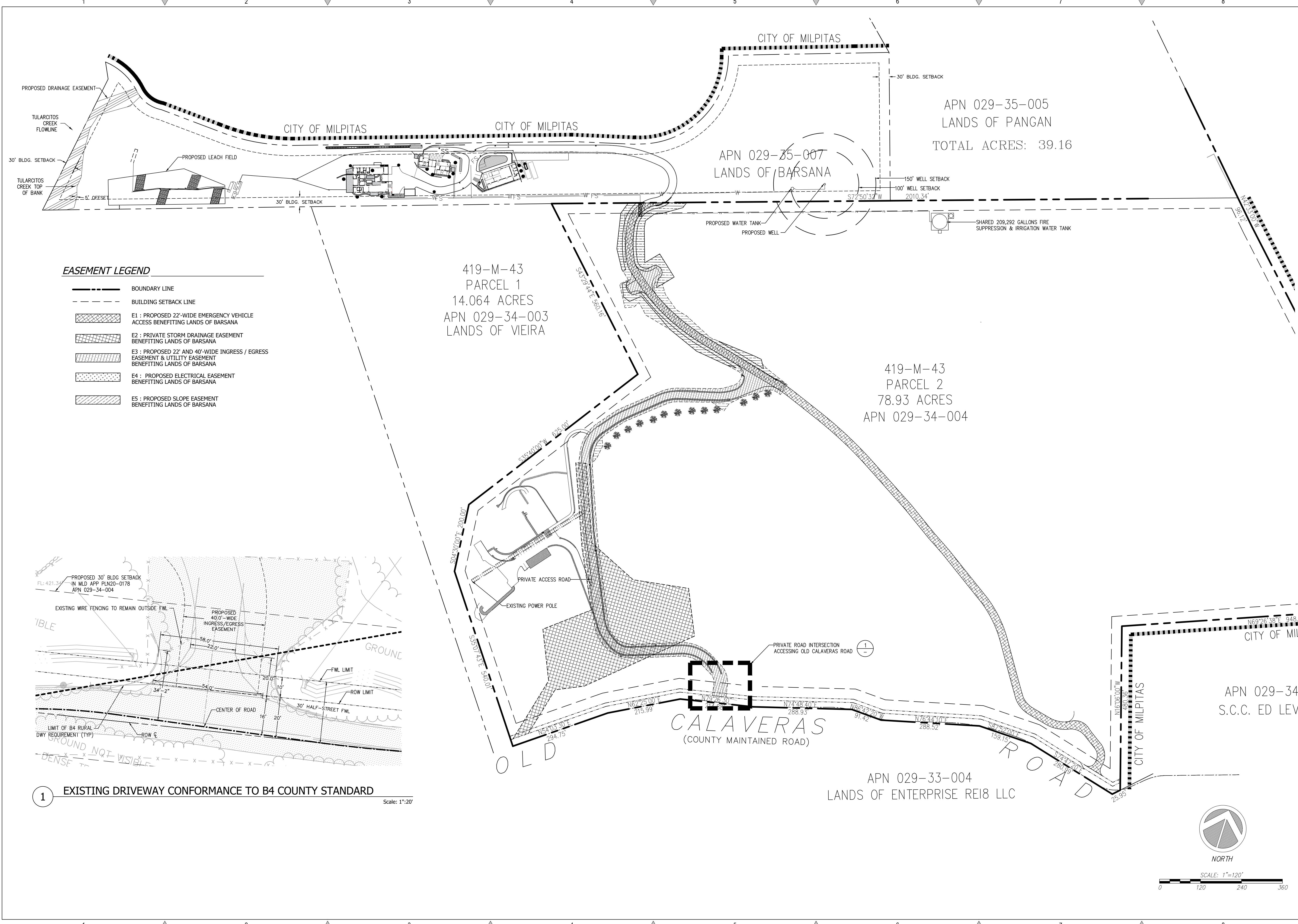
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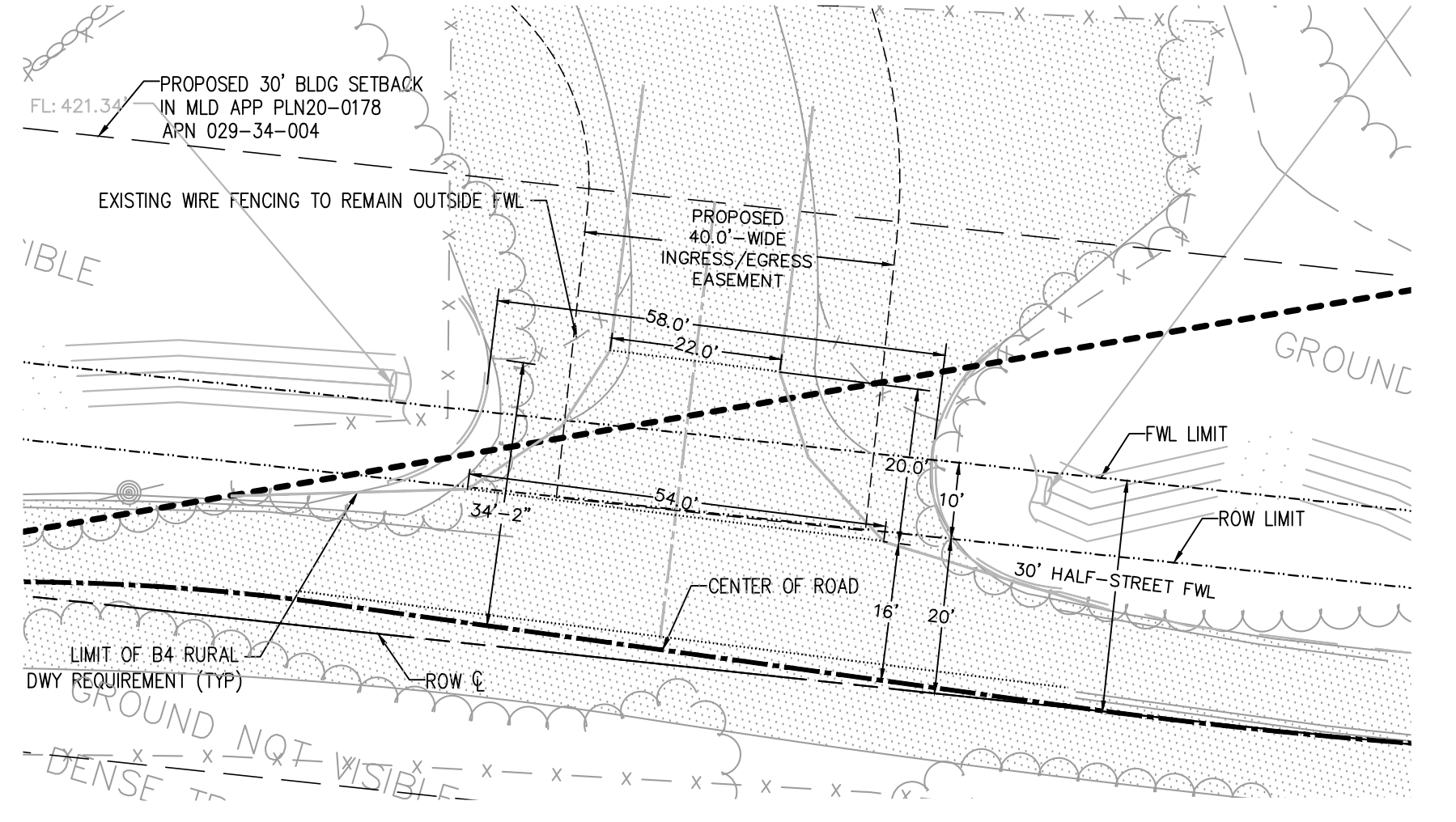
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of 37 Sheets



**EASEMENT LEGEND**

	BOUNDARY LINE
	BUILDING SETBACK LINE
	E1 : PROPOSED 22'-WIDE EMERGENCY VEHICLE ACCESS BENEFITING LANDS OF BARSANA
	E2 : PRIVATE STORM DRAINAGE EASEMENT BENEFITING LANDS OF BARSANA
	E3 : PROPOSED 22' AND 40'-WIDE INGRESS / EGRESS EASEMENT & UTILITY EASEMENT BENEFITING LANDS OF BARSANA
	E4 : PROPOSED ELECTRICAL EASEMENT BENEFITING LANDS OF BARSANA
	E5 : PROPOSED SLOPE EASEMENT BENEFITING LANDS OF BARSANA



1 EXISTING DRIVEWAY CONFORMANCE TO B4 COUNTY STANDARD Scale: 1"=20'

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

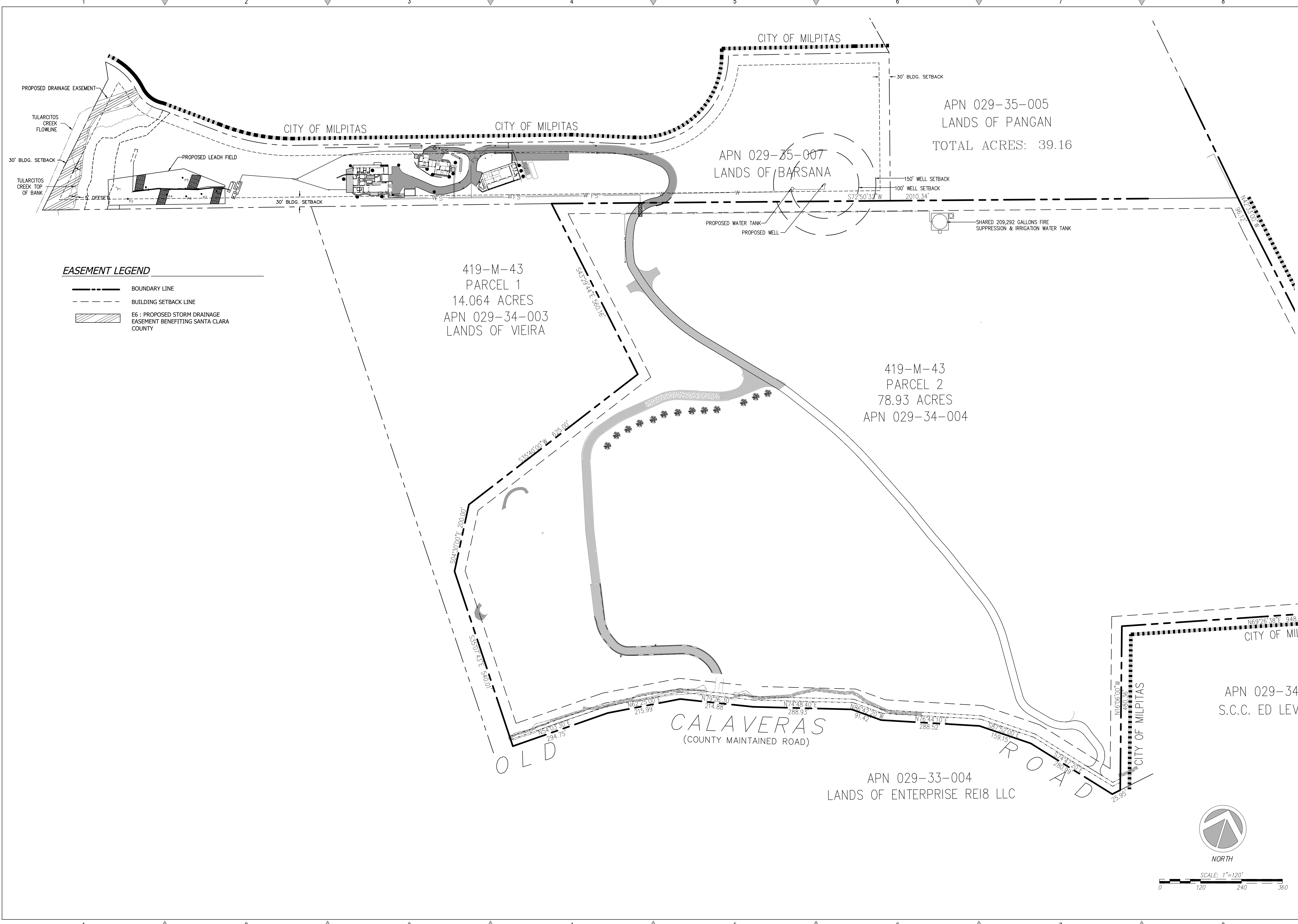
**PROPOSED SITE ACCESS & EASEMENTS**

REGISTERED PROFESSIONAL ENGINEER  
 TODD R. CREAGER  
 No. C 64561  
 Exp. 6/30/25  
 CIVIL  
 STATE OF CALIFORNIA

**C2G CIVIL CONSULTANTS GROUP, INC.**  
 Engineers/Planners  
 4400 Scotts Valley Road, Suite 6  
 Scotts Valley, CA 95066  
 T (831) 438-4420 F (831) 438-4420

**BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007**

Date: 09/27/23  
 Scale: 1" = 120'  
 Drawn: DD  
 Job: 3007.02  
 Sheet: C0.2  
 Of 37 Sheets



**EASEMENT LEGEND**

	BOUNDARY LINE
	BUILDING SETBACK LINE
	E6 : PROPOSED STORM DRAINAGE EASEMENT BENEFITING SANTA CLARA COUNTY

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

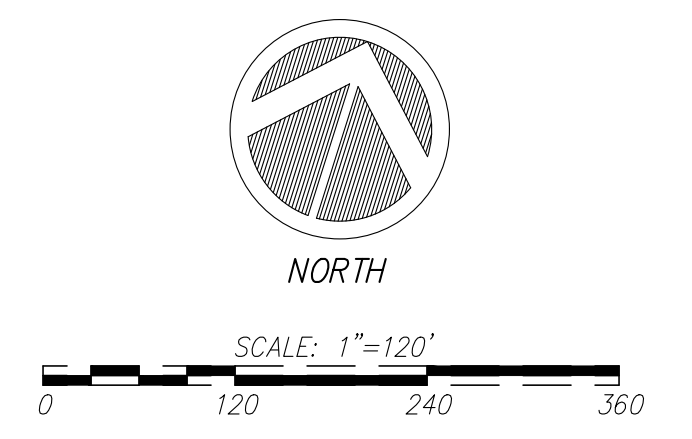
**PROPOSED STORM DRAIN EASEMENTS**



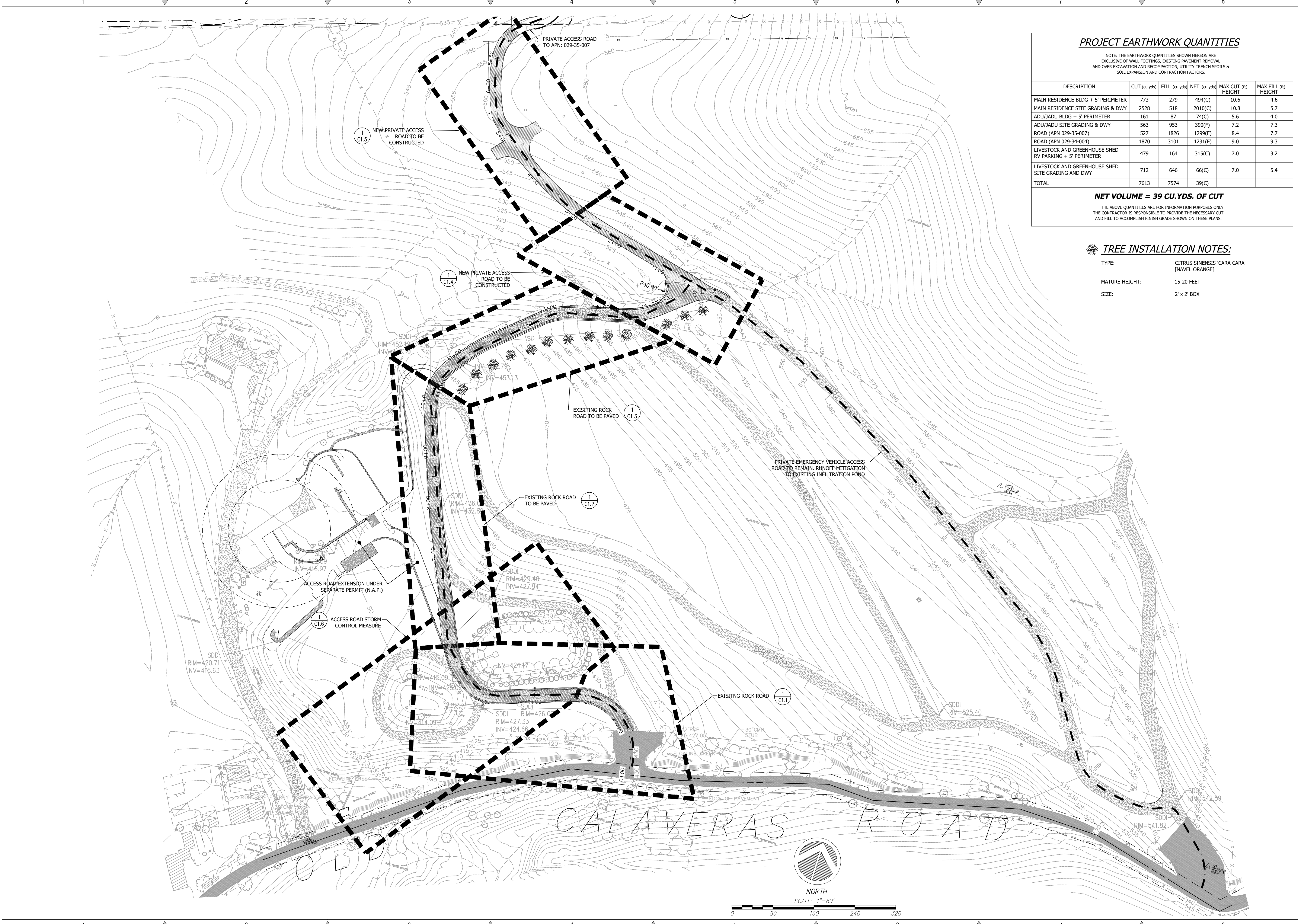
**C2G CIVIL CONSULTANTS GROUP, INC.**  
 Engineers/Planners  
 4400 Scotts Valley Road, Suite 6  
 Scotts Valley, CA 95066  
 T (831) 438-4420 F (831) 438-4420

**BARSANA RESIDENCE  
 AUGUSTE COURT  
 APN: 029-35-007**

Date:	09/27/23
Scale:	1" = 120'
Drawn:	DD
Job:	3007.02
Sheet:	<b>C0.3</b>
Of	37 Sheets



Drawing: Z:\Shared\CAD\000702 - MF - Barsana Residence\Design\CAD\Sheets\000702 - C0.3 - PROPOSED STORM DRAINAGE.dwg    Layout: C0.3    Date: 09/27/23    Time: 10:30am    User: DD    Plot: 09/27/23    Time: 10:30am    By: DD



**PROJECT EARTHWORK QUANTITIES**

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION, UTILITY TRENCH SPOILS & SOIL EXPANSION AND CONTRACTION FACTORS.

DESCRIPTION	CUT (cu yds)	FILL (cu yds)	NET (cu yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
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LIVESTOCK AND GREENHOUSE SHED RV PARKING + 5' PERIMETER	479	164	315(C)	7.0	3.2
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<b>TOTAL</b>	<b>7613</b>	<b>7574</b>	<b>39(C)</b>		

**NET VOLUME = 39 CU.YDS. OF CUT**

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

**TREE INSTALLATION NOTES:**

TYPE: CITRUS SINENSIS 'CARA CARA' [NAVEL ORANGE]

MATURE HEIGHT: 15-20 FEET

SIZE: 2' x 2' BOX

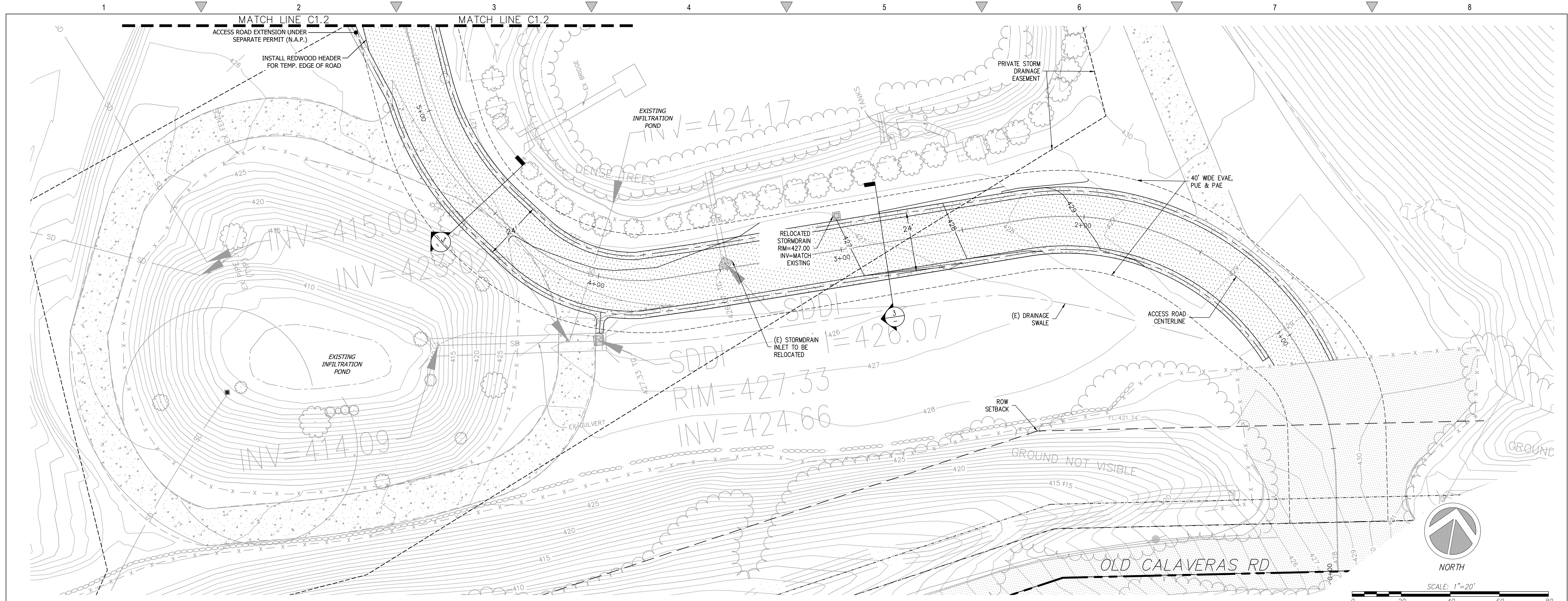
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

**EXISTING SITE ACCESS**

**C2G CIVIL CONSULTANTS GROUP, INC.**  
 Engineers/Planners  
 44000 Old Road, Suite 6  
 Scotts Valley, CA 95066  
 T (831) 438-4420 F (831) 438-4420

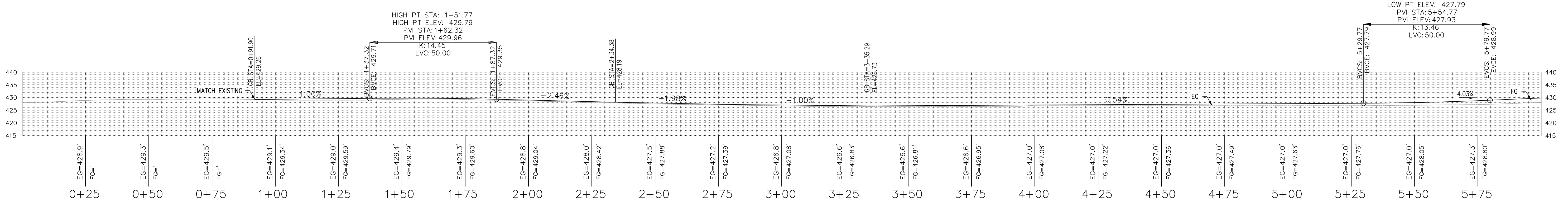
**BARSANA RESIDENCE**  
**AUGUSTE COURT**  
**APN: 029-35-007**

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 Job: 3007.02  
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 of 37 Sheets



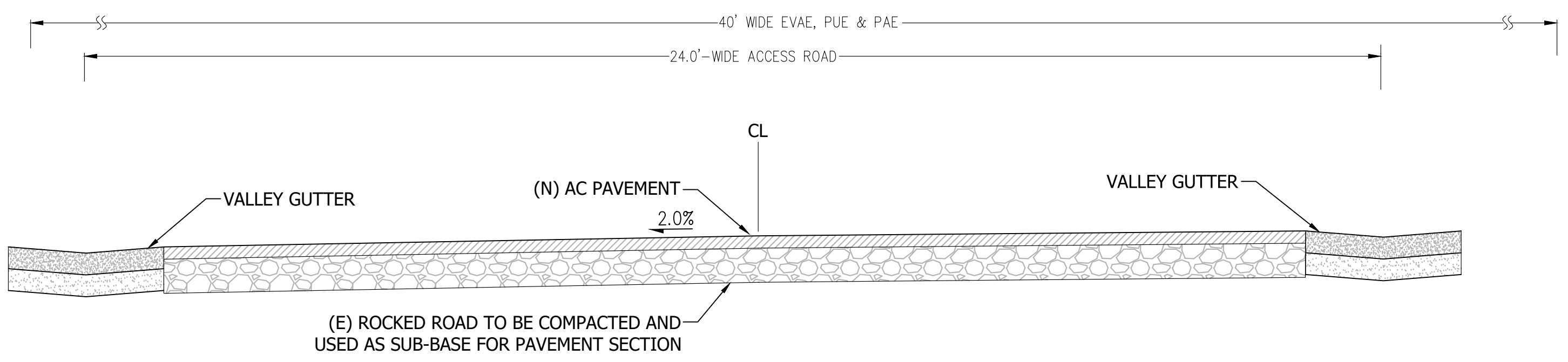
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Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 0+00 TO 6+00

Scale: 1:20

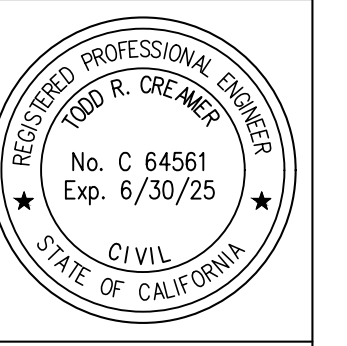


3 22'-WIDE ACCESS ROAD SECTION

Scale: 1"=2'

REVISIONS	BY
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2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

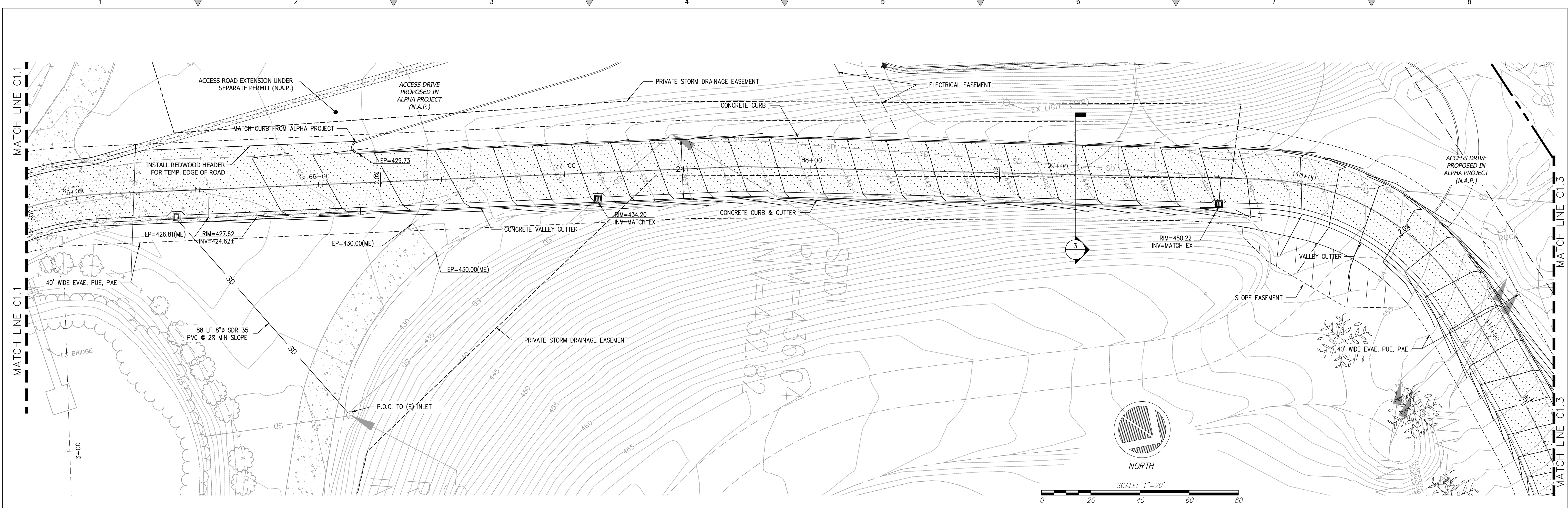
EXISTING ACCESS  
ROAD PLAN & PROFILES



**C2G CIVIL CONSULTANTS GROUP, INC.**  
 Engineers/Planners  
 4400 Sycamore Ave., Suite 6  
 Scotts Valley, CA 95066  
 T (831) 438-4420 F (831) 438-4420  
Leaf Printed: Wed Mar 08, 2024 - 10:50am By: PAK/MLW

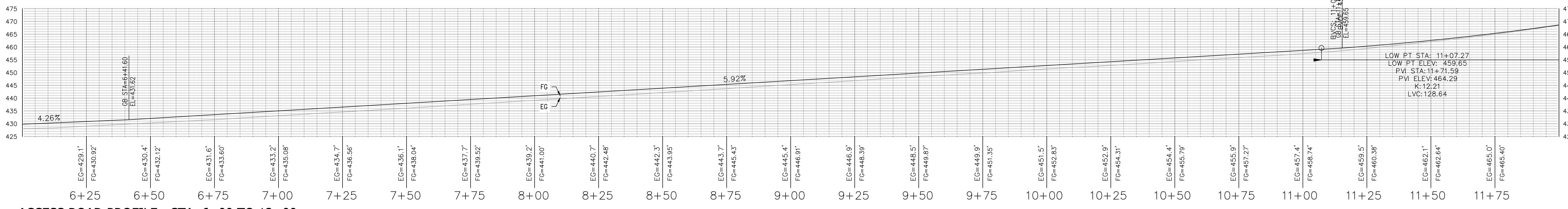
**BARSANA RESIDENCE**  
 AUGUSTE COURT  
 APN: 029-35-007

Date:	09/27/23
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.1



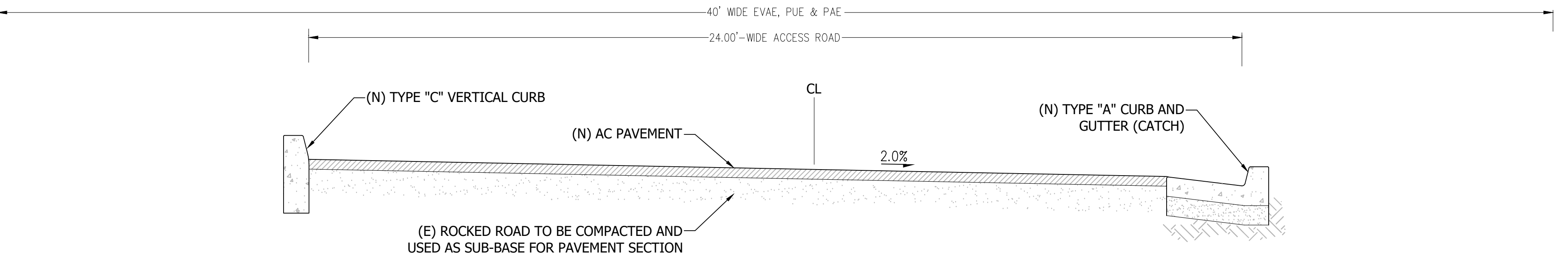
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



2 ACCESS ROAD PROFILE - STA. 6+00 TO 12+00

Scale: 1:20

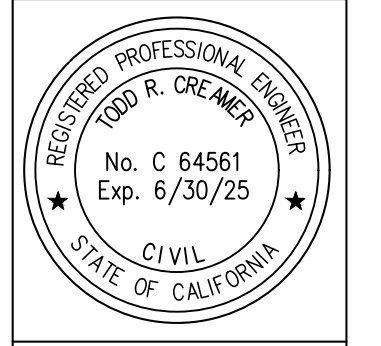


3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

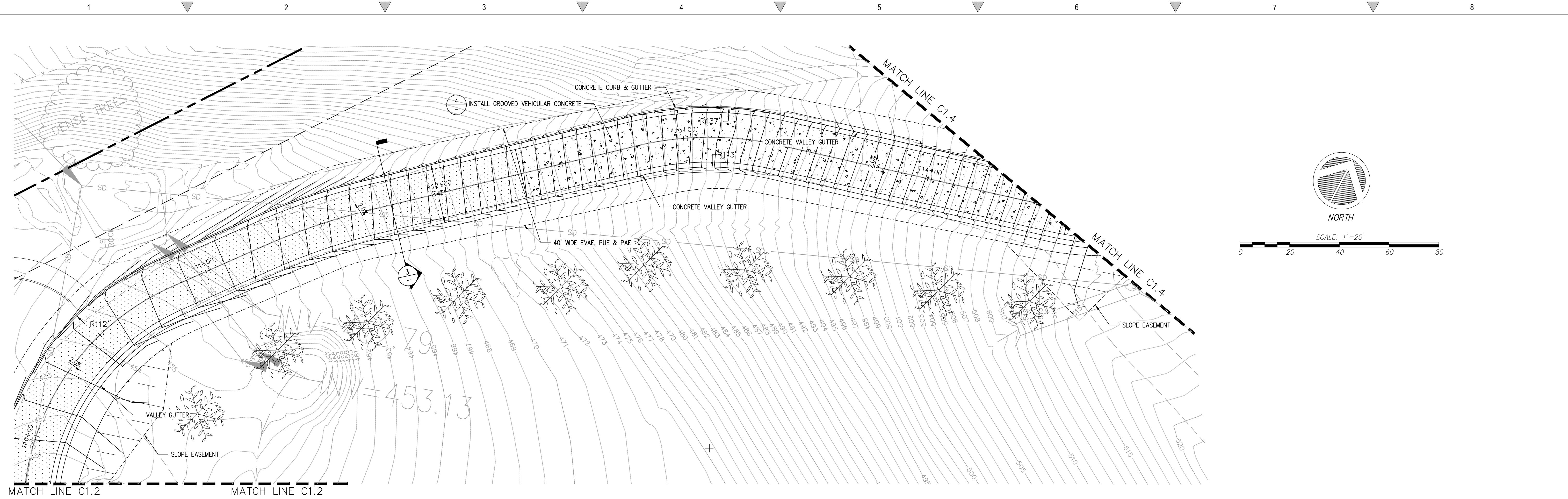
**ACCESS ROAD PLAN & PROFILES**



**C2G CIVIL CONSULTANTS GROUP, INC.**  
 Engineers/Planners  
 4400 Scotts Valley Road  
 Scotts Valley, CA 95066  
 T (831) 438-4420 F (831) 438-4420

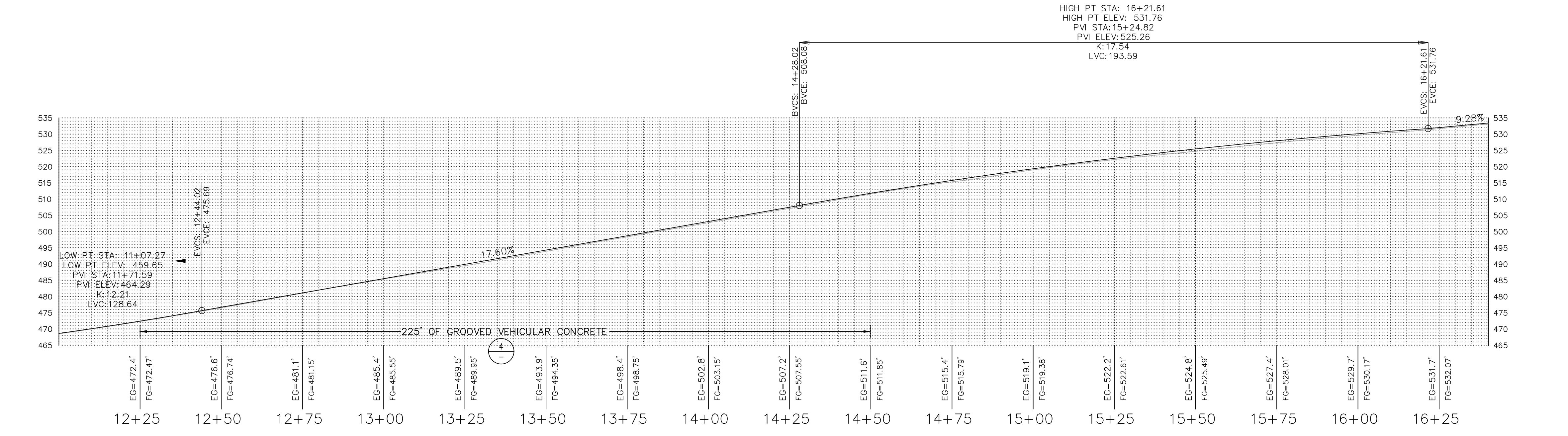
**BARSANA RESIDENCE**  
**AUGUSTE COURT**  
 APN: 029-35-007

Date: 09/27/23  
 Scale: 1" = 20'  
 Drawn: DD  
 Job: 3007.02  
 Sheet: **C1.2**  
 of 37 Sheets



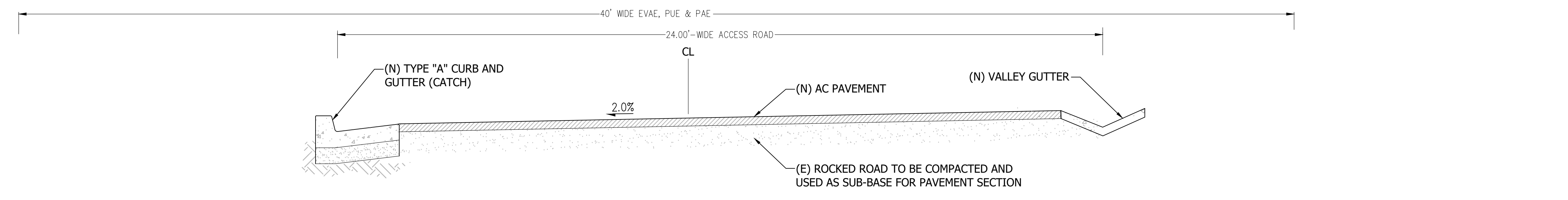
1 PROPOSED ACCESS ROAD PLAN

Scale: 1:20



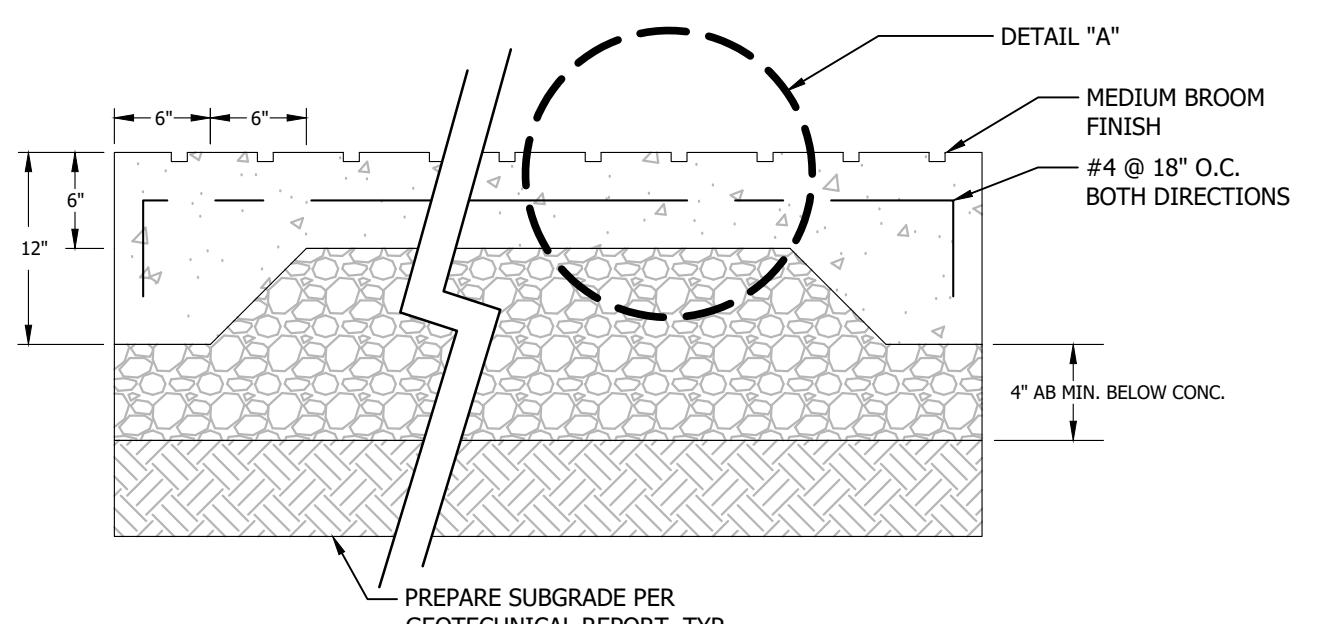
2 ACCESS ROAD PROFILE - STA. 12+00 TO 16+45

Scale: 1:20

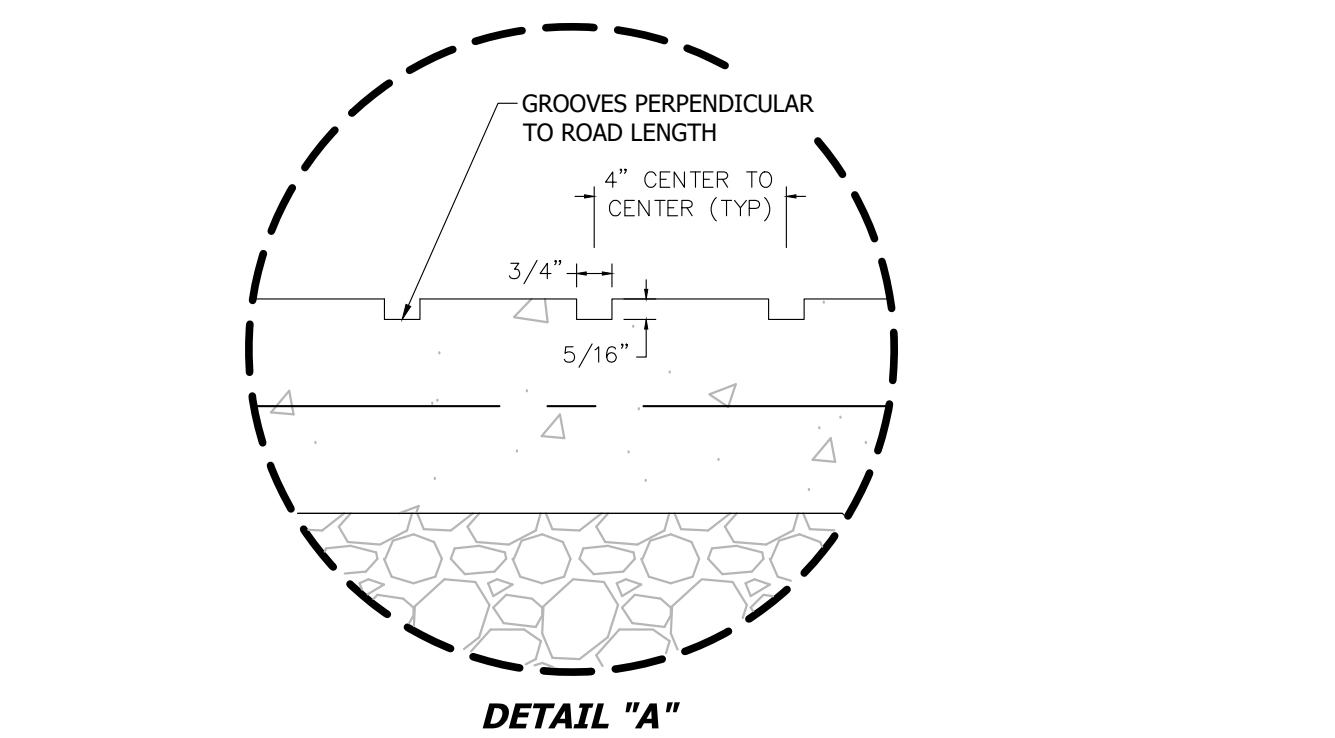


3 24'-WIDE ACCESS ROAD SECTION

Scale: 1":2'



- NOTE:
1. TYPE OF CONCRETE: CLASS A
  2. MINIMUM 6" CLASS 2 AB, COMPACTED TO 95%.
  3. SEE LANDSCAPE PLAN FOR LOCATION OF SCORING AND EXPANSION JOINTS.
  4. DOWEL WITH #4 BARS, 12" LONG, AT 24" ON CENTERS, EMBEDDED 4" WITH EPOXY IN EDGE OF EXISTING CONCRETE.
  5. DOWELING & REINFORCING TO BE PROVIDED AT JOINTS.

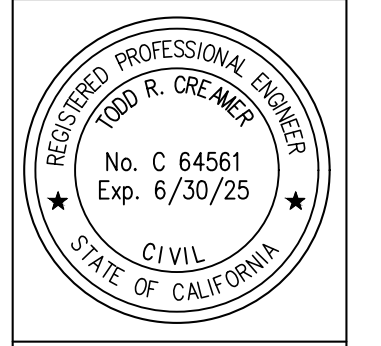


4 VEHICULAR CONCRETE SECTION W/ GROOVES

Scale: NTS

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

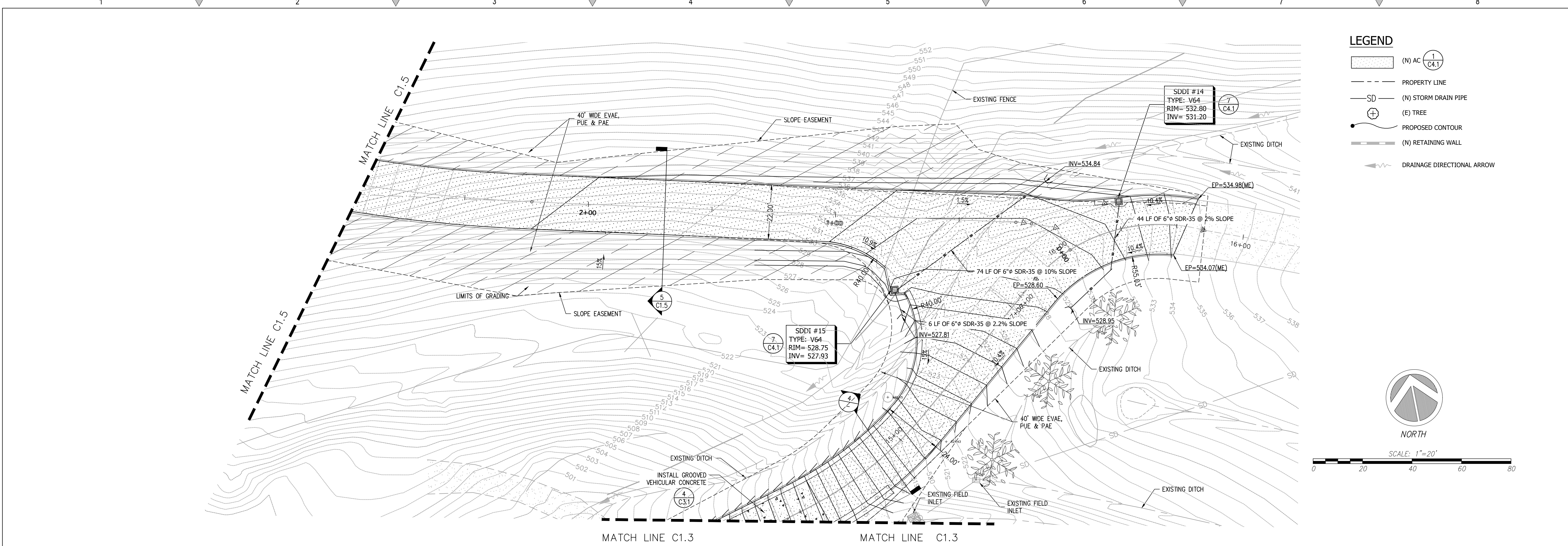
ACCESS ROAD PLAN & PROFILES



**C2G CIVIL CONSULTANTS GROUP, INC.**  
 Engineers/Planners  
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 Scotts Valley, CA 95066  
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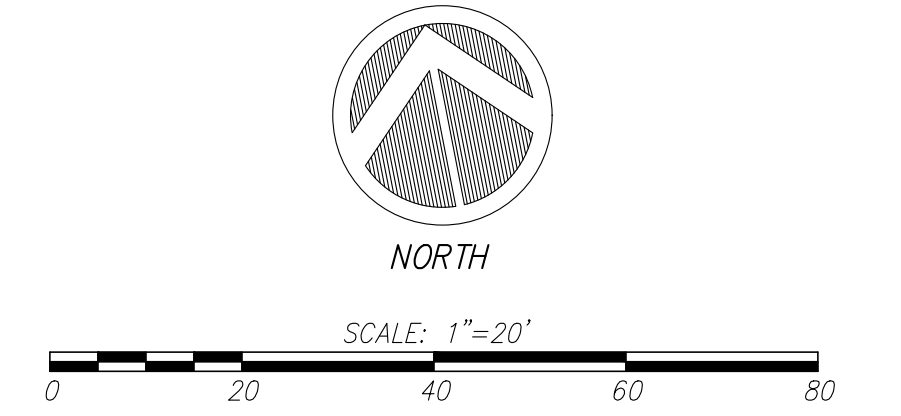
**BARSANA RESIDENCE**  
 AUGUSTE COURT  
 APN: 029-35-007

Date: 09/27/23  
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 Job: 3007.02  
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 of 37 Sheets



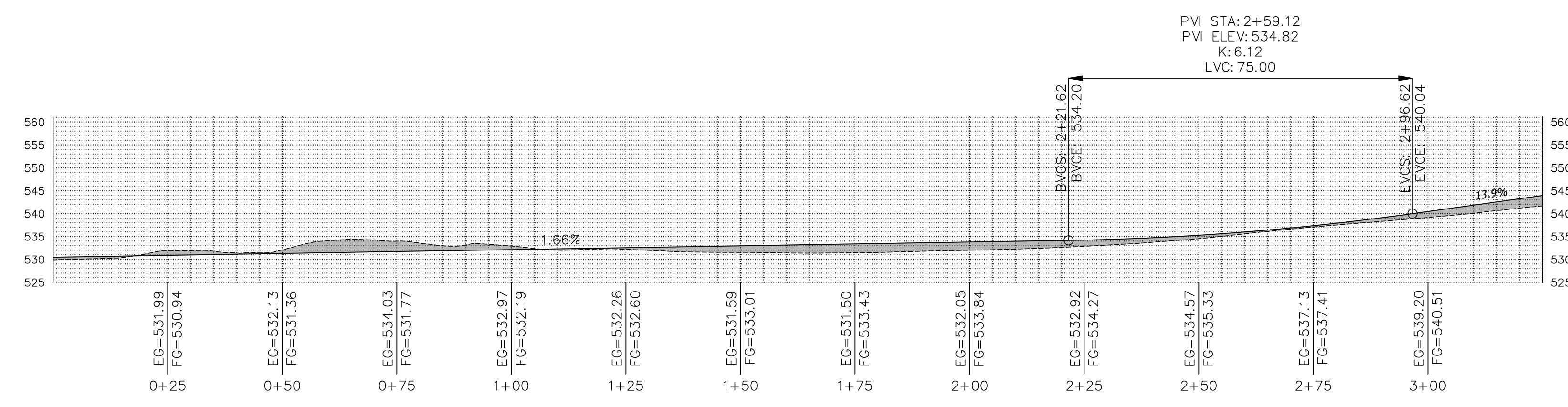
**LEGEND**

- (N) AC (C4.1)
- PROPERTY LINE
- SD (N) STORM DRAIN PIPE
- (E) TREE
- PROPOSED CONTOUR
- (N) RETAINING WALL
- DRAINAGE DIRECTIONAL ARROW



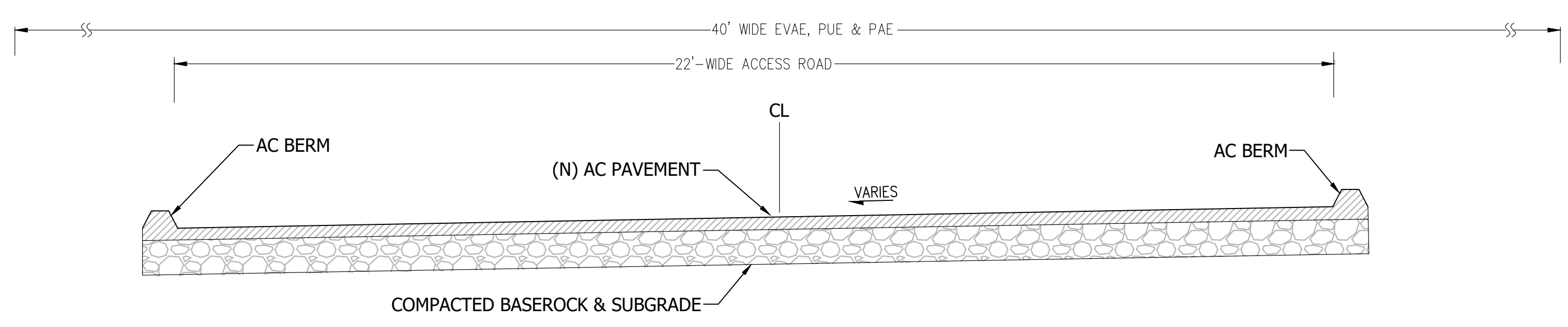
1 ENLARGED SITE PLAN - ACCESS ROAD

Scale: 1"=20'



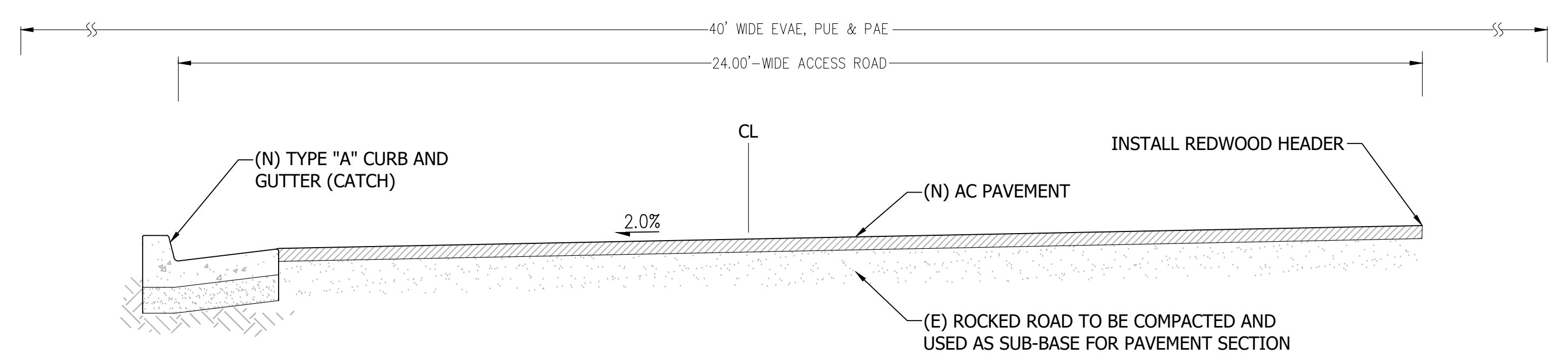
2 MAIN ROAD PROFILE - STA. 0+00 TO 3+25

Scale: 1:20



3 22'-WIDE ACCESS ROAD SECTION

Scale: 1"=2'

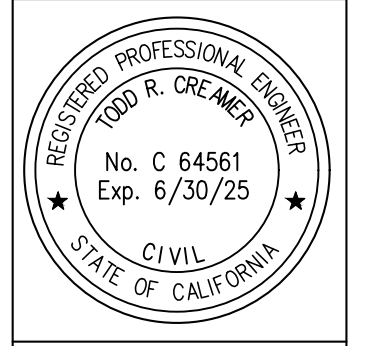


4 24'-WIDE ACCESS ROAD SECTION

Scale: 1"=2'

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

ENLARGED SITE PLAN

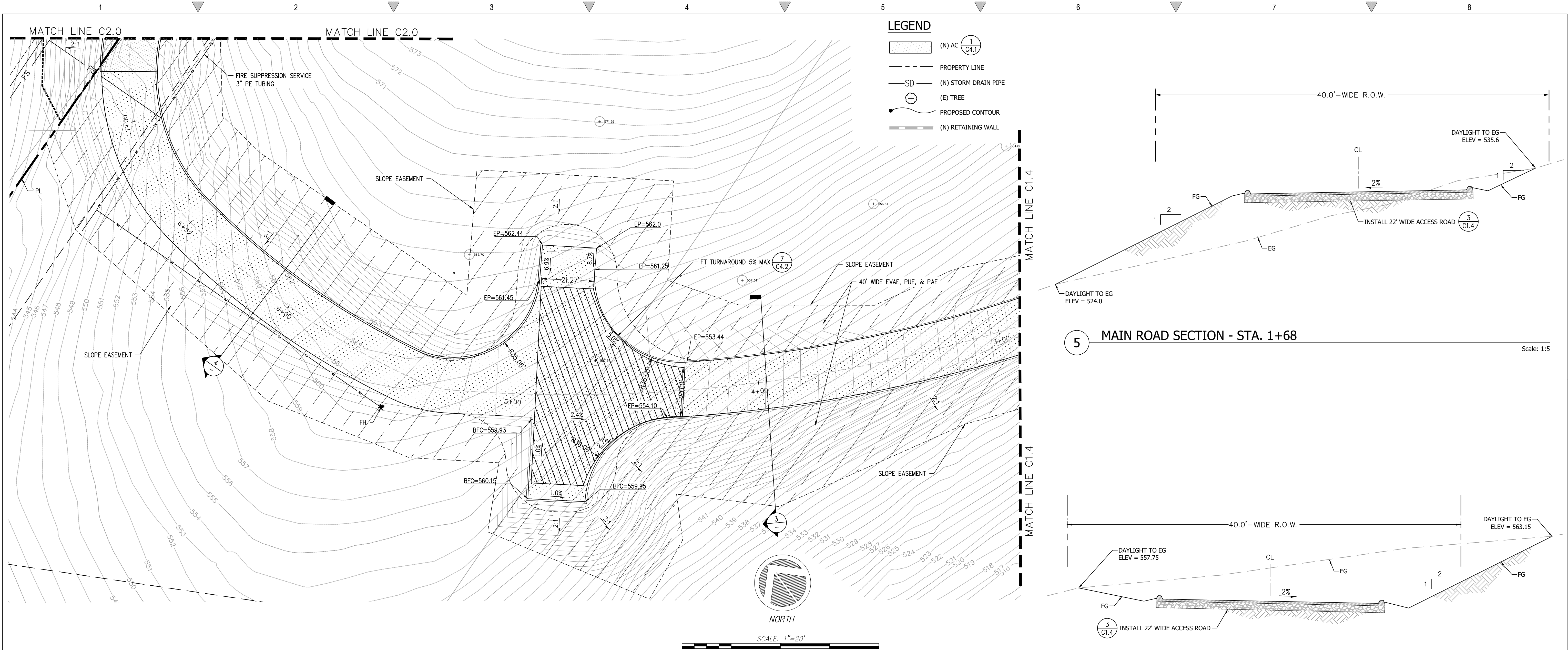


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 Scotts Valley, CA 95066  
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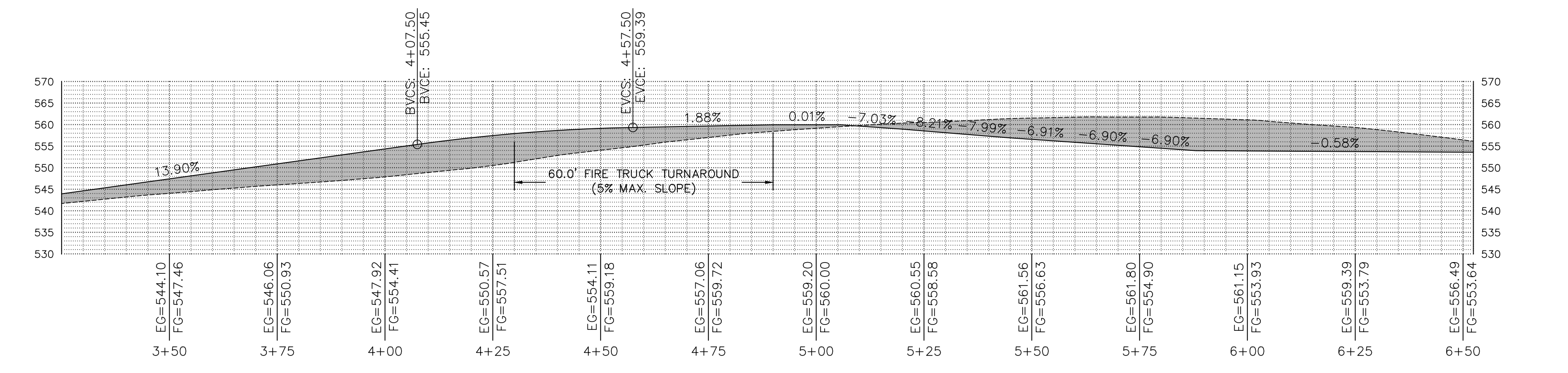
**BARSANA RESIDENCE**  
 AUGUSTE COURT  
 APN: 029-35-007

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 Sheet: C1.4  
 Of 37 Sheets

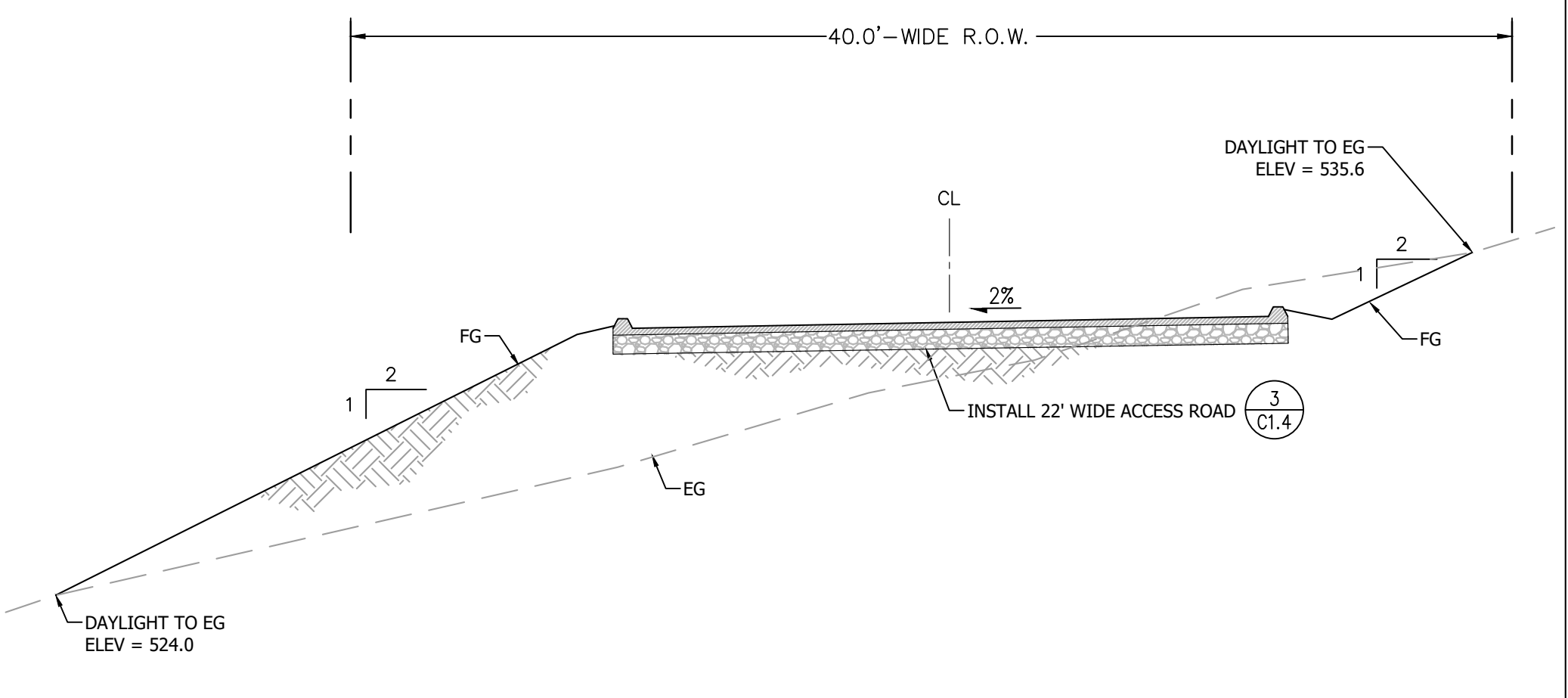




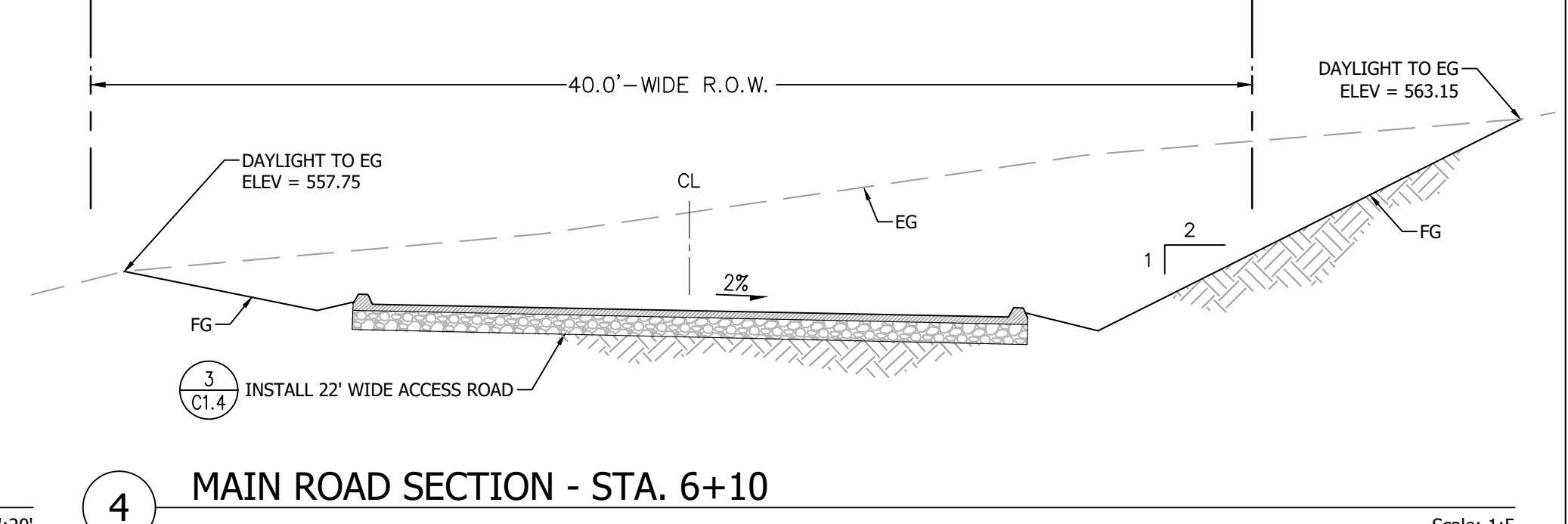
1 ENLARGED SITE PLAN - ACCESS ROAD



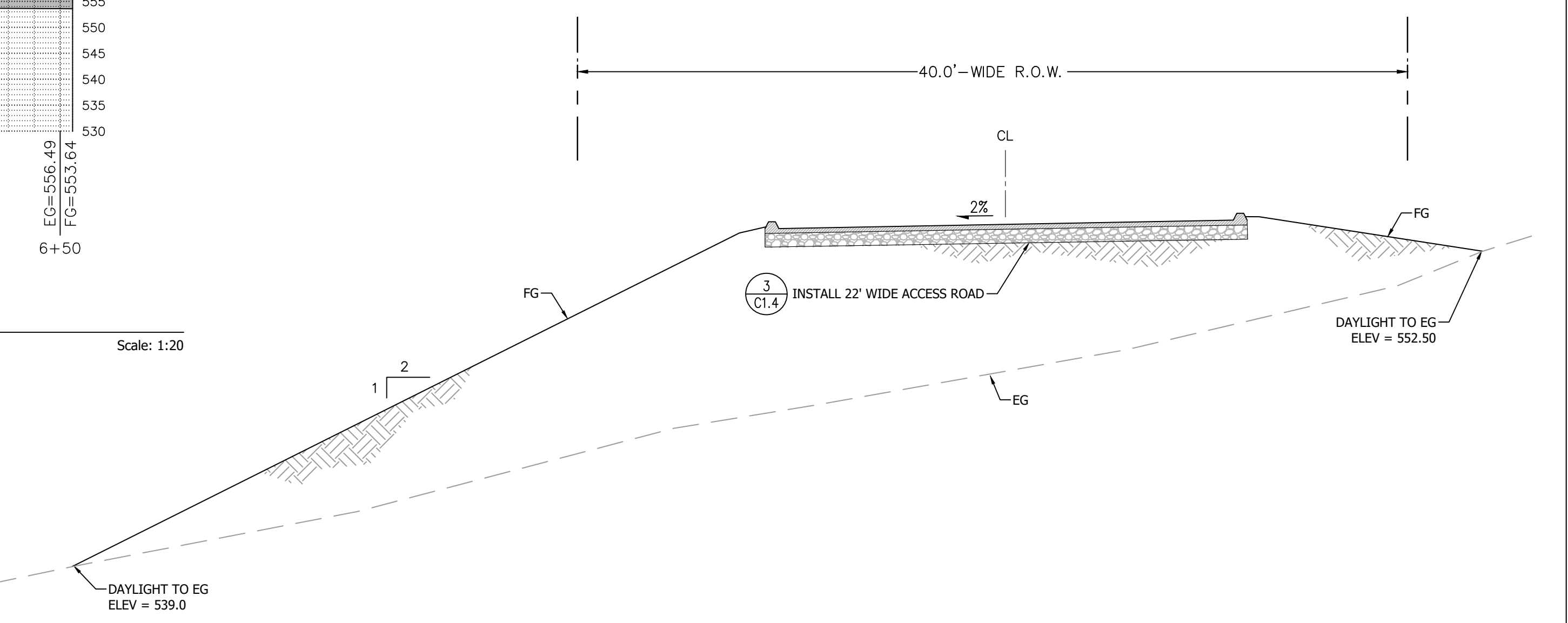
2 MAIN ROAD PROFILE - STA. 3+25 TO 6+52



5 MAIN ROAD SECTION - STA. 1+68



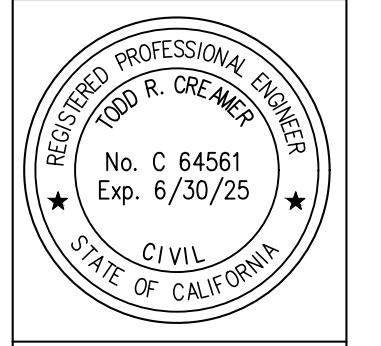
4 MAIN ROAD SECTION - STA. 6+10



3 MAIN ROAD SECTION - STA. 3+97

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

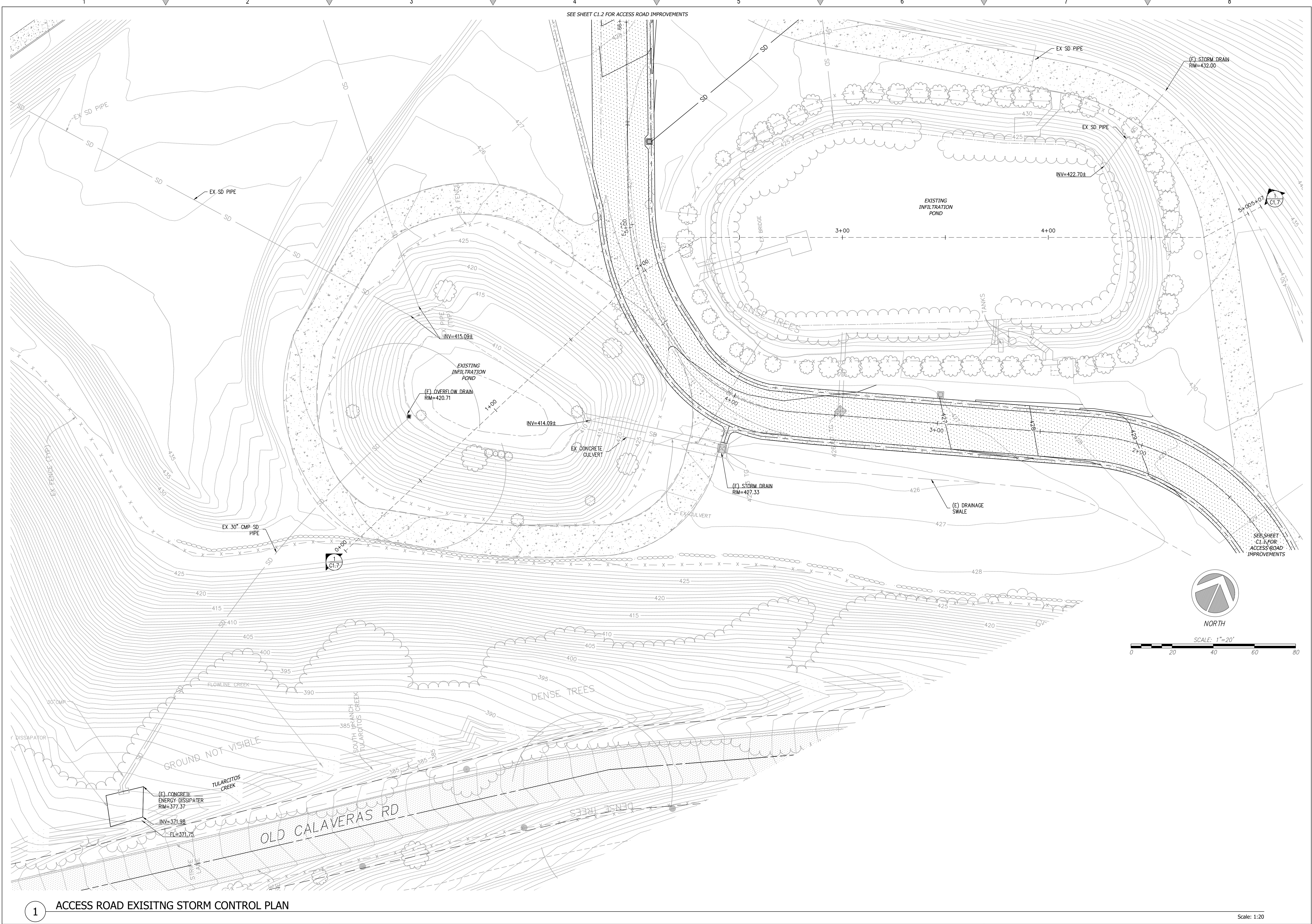
**PROPOSED ACCESS PLAN AND PROFILE**



**C2G CIVIL CONSULTANTS GROUP, INC.**  
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 4400 Sycamore Drive, Suite 6  
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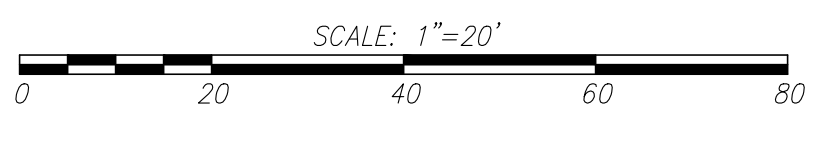
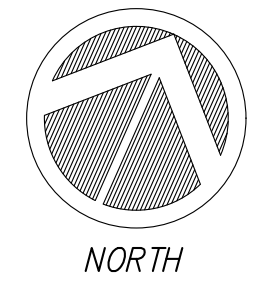
**BARSANA RESIDENCE  
 AUGUSTE COURT  
 APN: 029-35-007**

Date:	09/27/23
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.5
Of	37 Sheets



SEE SHEET C1.2 FOR ACCESS ROAD IMPROVEMENTS

SEE SHEET C1.2 FOR ACCESS ROAD IMPROVEMENTS

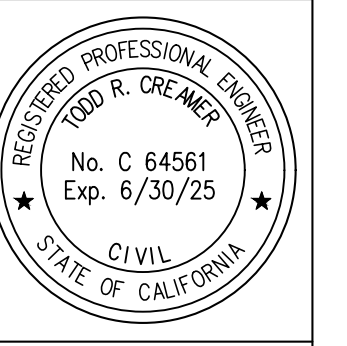


**1 ACCESS ROAD EXISTING STORM CONTROL PLAN**

Scale: 1:20

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

**EXISTING INFILTRATION POND PLAN**



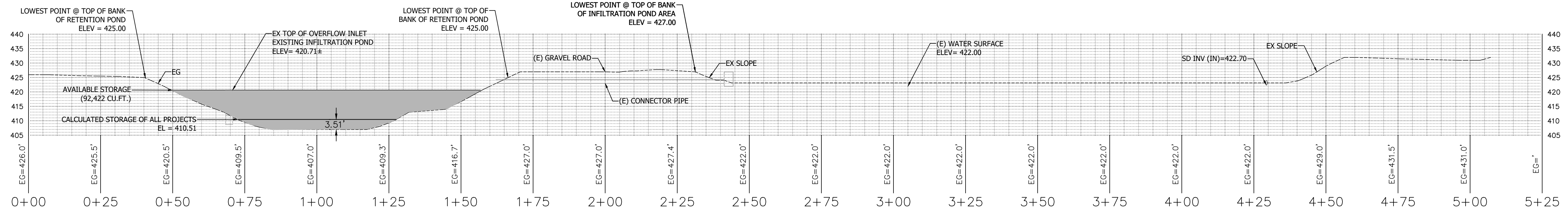
**C2G CIVIL CONSULTANTS GROUP, INC.**  
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 Sheet:

**C1.6**  
 of 37 Sheets

Drawing: 2 | Shared CAD | 3007.02 - INF - Storm Drain | Design | CAD | Sheets | 3007.02 - C1.6 - EX. INFILTRATION POND PLAN | Layout: C1.6 - 380P | Last Saved: Wed Mar 08, 2024 - 10:25am | By: ERS@cmg.com



1 EXISTING INFILTRATION POND, DRAIN AND OVERFLOW STRUCTURE

Scale: 1" = 20'

**BARSANA (15-ACRE LOT) SFH PROJECT**

IMPERVIOUS AREA IN APN 029-34-004			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
NEW ASPHALT ROAD	18,259	0.419	0.419

NOTE: EXISTING GRAVEL ROAD TO BE ASPHALTED PER 2022 RECLAMATION PLAN AMENDMENT FROM STATION 5+50 TO 15+26

**GOKULAM BUILDING PERMIT FOR LIVESTOCK SHELTERS**

SHED 1: DEV22-3196  
SHED 2: DEV22-3201  
SHED 3: DEV22-3202

STORAGE 1: DEV22-3206  
STORAGE 2: DEV22-3207

NEW IMPERVIOUS AREA			
DESCRIPTION	SQ. FT.	EQUIV. SF	ACRES
ROOF	1740	1740	0.0399
AC	1686	1686	0.0387
CONC.	2797	2797	0.0642
GRAVEL	2139	1283	0.0295
TOTAL	8362	7506	0.1723

**GOKULAM WATER TANK IMPROVEMENT PROJECT**

DEV23-0115

IMPERVIOUS AREA		
DESCRIPTION	SQ. FT.	ACRES
WATER TANK	2337	0.0537
CONC.	472	0.0108
TOTAL	2809	0.0645

**GOKULAM LIVESTOCK SHELTER ACCESS ROAD AND PARKING**

FUTURE CARPORT FOR THE UTILITY VEHICLE APPROVED UNDER PLN20-125  
FUTURE LIVESTOCK SHELTER APPROVED UNDER PLN20-125  
FUTURE FEE STORAGE SHED APPROVED UNDER PLN20-125  
FUTURE AGRICULTURAL SHED APPROVED UNDER PLN20-125

NEW IMPERVIOUS AREA		
DESCRIPTION	AREA (SF)	ACRES
ROOF	12053	0.2767
AC	24287	0.5576
CONC.	10660	0.2447
TOTAL	47000	1.0790

**GOKULAM SMALL SCALE PERMANENT AGRICULTURAL EMPLOYEE HOUSING**

NEW IMPERVIOUS AREA		
DESCRIPTION	AREA (SF)	ACRES
BUILDING	1849	0.0424
CONCRETE DRIVEWAY	372	0.0085
ASPHALT ROAD	571	0.0131
CONCRETE WALKWAYS	413	0.0095
TOTAL (N) IMPERVIOUS AREA	3205	0.0736
EXISTING IMPERVIOUS AREA TBR	0	0.0000
NET INCREASE OF IMPERVIOUS AREA	3205	0.0736

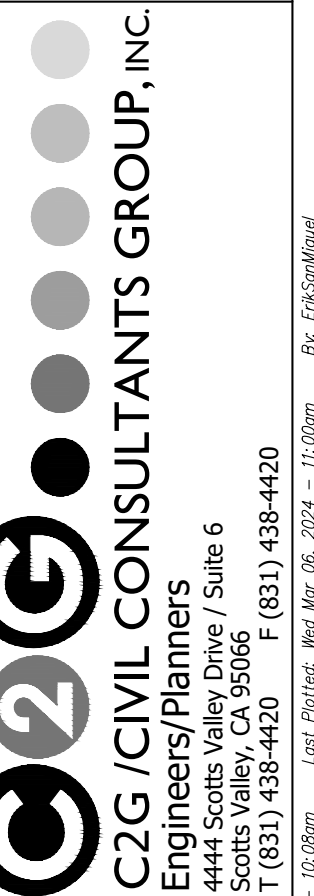
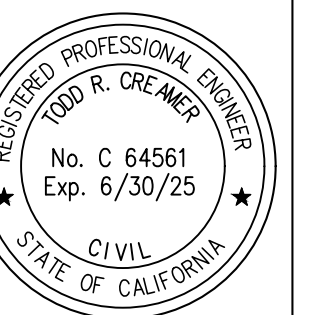
T (min)	100-Yr Depth (in)	Intensity (in/hr)	Peak Flow (CFS)	Volume In (CU.FT.)	Volume Out (CU.FT.)	Soil Infiltration Rate (cfs)	Storage Vol. (Cu. Ft.)
5	0.38	4.53	8.56	3020.776	147.399	0.491	2873.378
10	0.53	3.21	6.06	4279.296	294.797	0.491	3984.499
15	0.63	2.52	4.76	5043.285	442.196	0.491	4601.089
30	0.85	1.70	3.21	6800.827	884.392	0.491	5916.435
60	1.20	1.20	2.27	9626.305	1768.783	0.491	7857.522
120	1.82	0.91	1.72	14557.738	3537.567	0.491	11020.171
180	2.38	0.79	1.50	19017.484	5306.350	0.491	13711.134
360	3.81	0.63	1.20	30482.607	10612.700	0.491	19869.907
720	5.69	0.47	0.90	45523.630	21225.400	0.491	24298.230
1440	8.12	0.34	0.64	64961.309	42450.800	0.491	22510.509
2880	10.99	0.23	0.43	87961.008	84901.600	0.491	3059.408
5760	12.85	0.13	0.25	102824.680	169803.200	0.491	-66978.520
Depth of new runoff in pond (ft)=							4.82

2 IMPERVIOUS AREA TABULATION OF CURRENT PROJECTS

2 STORM WATER CALCULATION PER SANTA CLARA DESIGN MANUAL

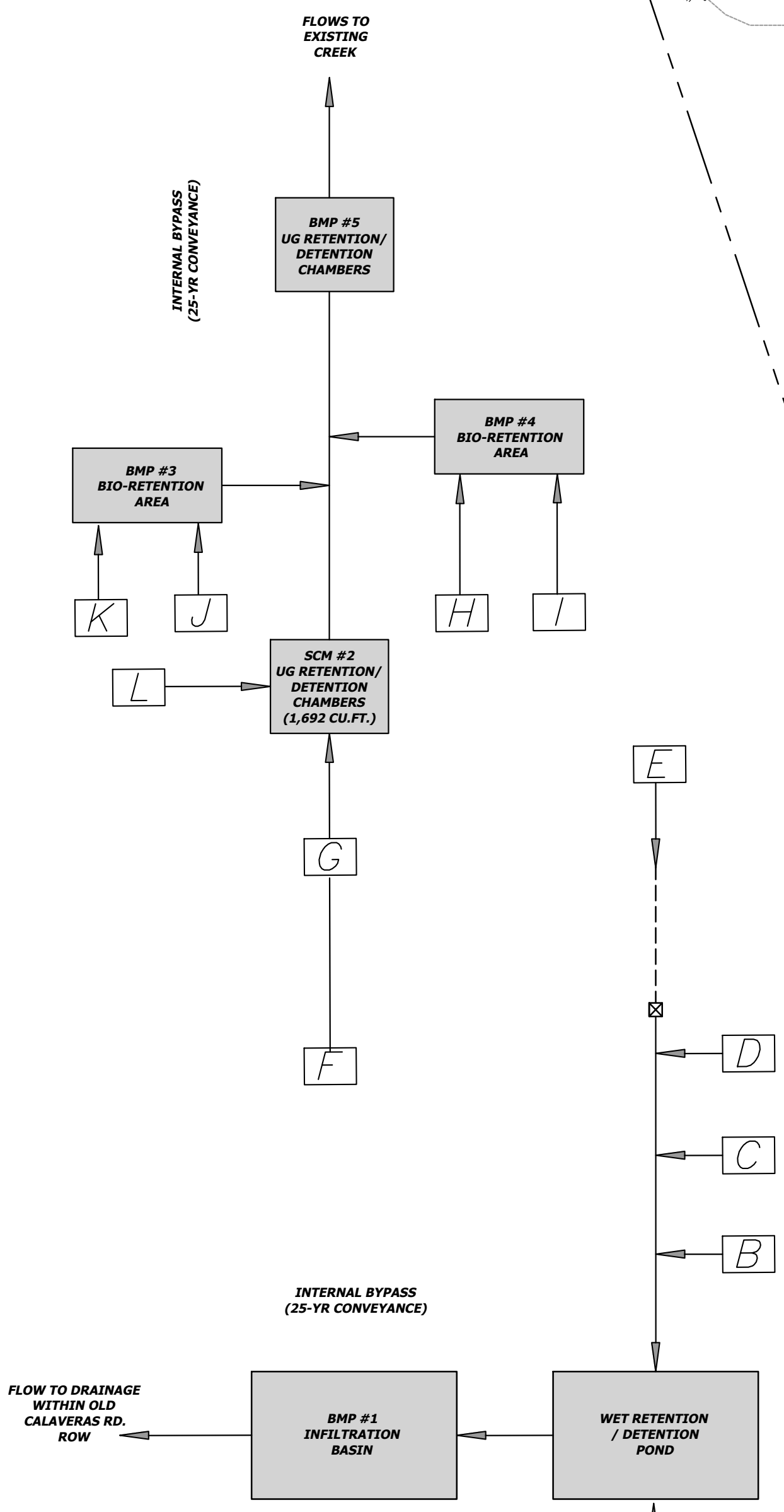
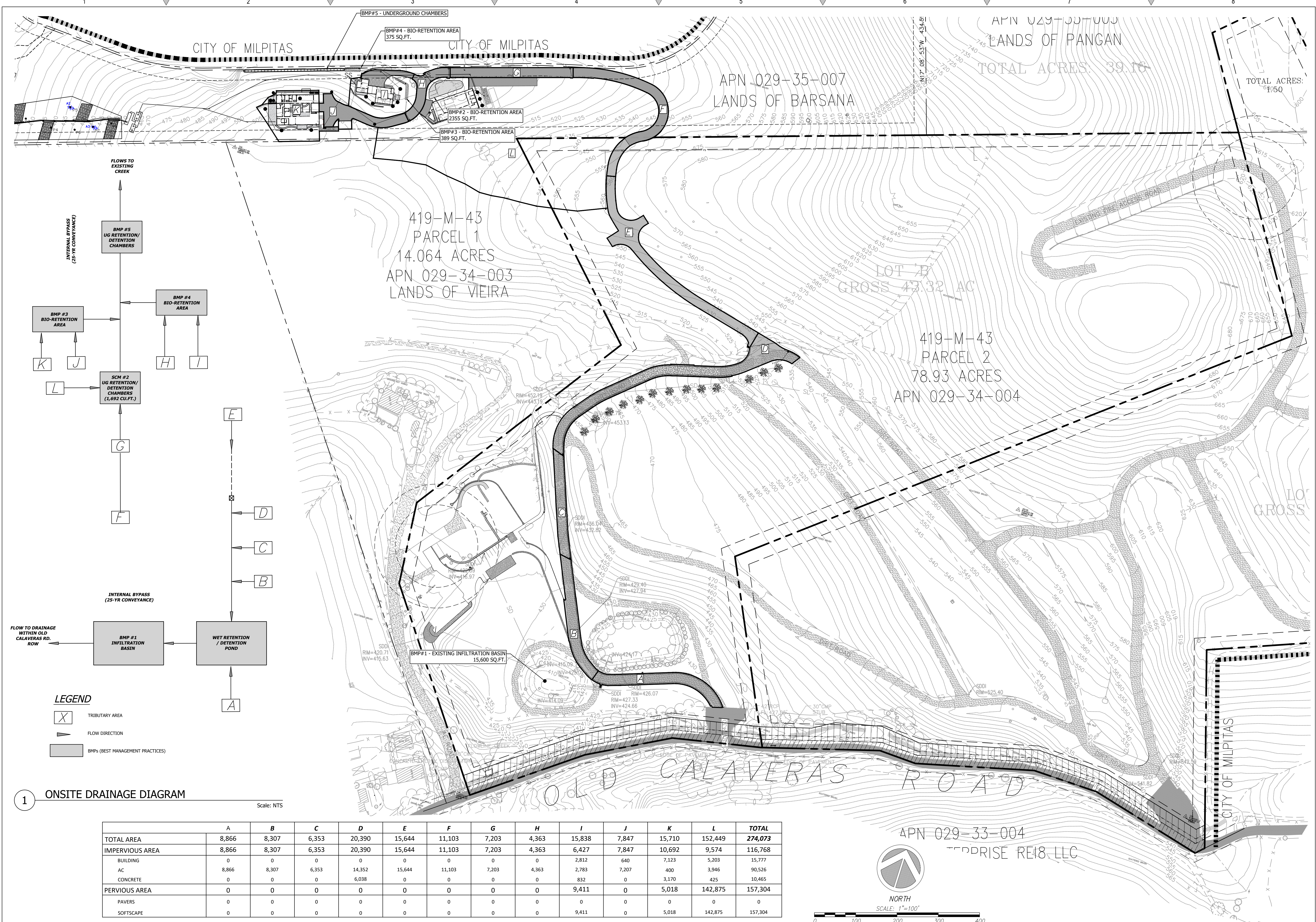
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

EXISTING INFILTRATION POND PLAN



BARSANA RESIDENCE  
AUGUSTE COURT  
APN: 029-35-007

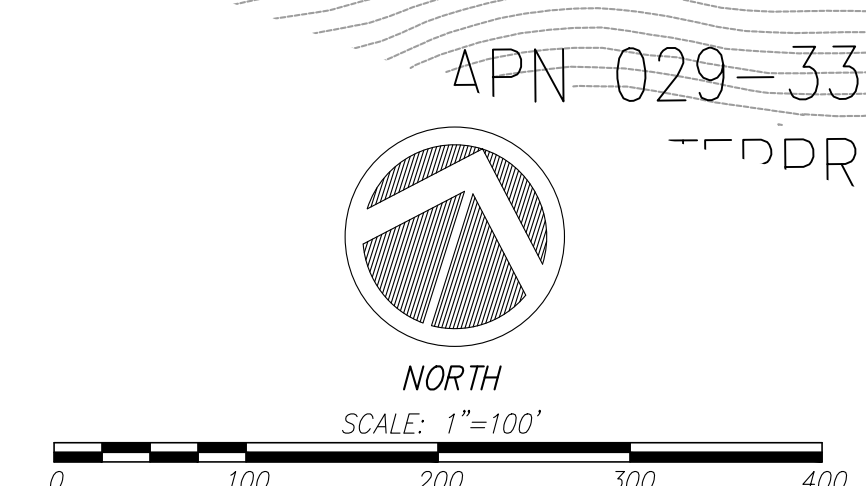
Date:	09/27/23
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.7
Of	37 Sheets



- LEGEND**
- TRIBUTARY AREA
  - FLOW DIRECTION
  - BMPs (BEST MANAGEMENT PRACTICES)

**1** ONSITE DRAINAGE DIAGRAM Scale: NTS

	A	B	C	D	E	F	G	H	I	J	K	L	TOTAL
TOTAL AREA	8,866	8,307	6,353	20,390	15,644	11,103	7,203	4,363	15,838	7,847	15,710	152,449	274,073
IMPERVIOUS AREA	8,866	8,307	6,353	20,390	15,644	11,103	7,203	4,363	6,427	7,847	10,692	9,574	116,768
BUILDING	0	0	0	0	0	0	0	0	2,812	640	7,123	5,203	15,777
AC	8,866	8,307	6,353	14,352	15,644	11,103	7,203	4,363	2,783	7,207	400	3,946	90,526
CONCRETE	0	0	0	6,038	0	0	0	0	832	0	3,170	425	10,465
PERVIOUS AREA	0	0	0	0	0	0	0	0	9,411	0	5,018	142,875	157,304
PAVERS	0	0	0	0	0	0	0	0	0	0	0	0	0
SOFTSCAPE	0	0	0	0	0	0	0	0	9,411	0	5,018	142,875	157,304



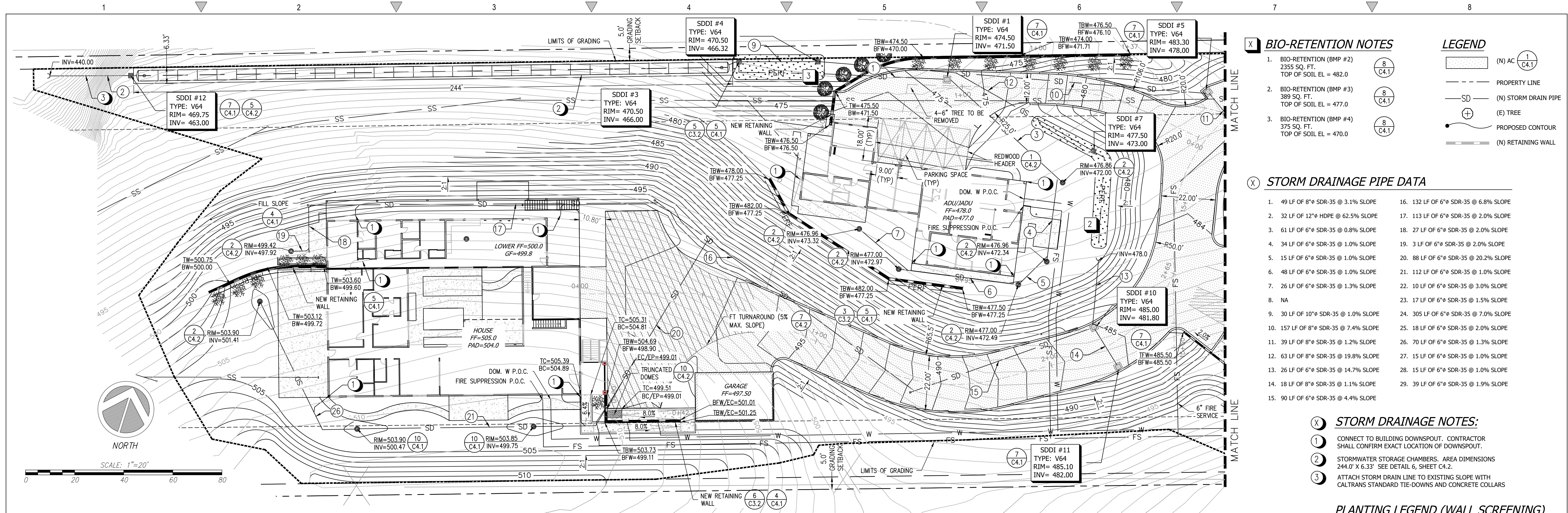
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

**TRIBUTARY AREA MAP**

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**BARSANA RESIDENCE**  
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 Sheet: **C1.8**  
 of 37 Sheets



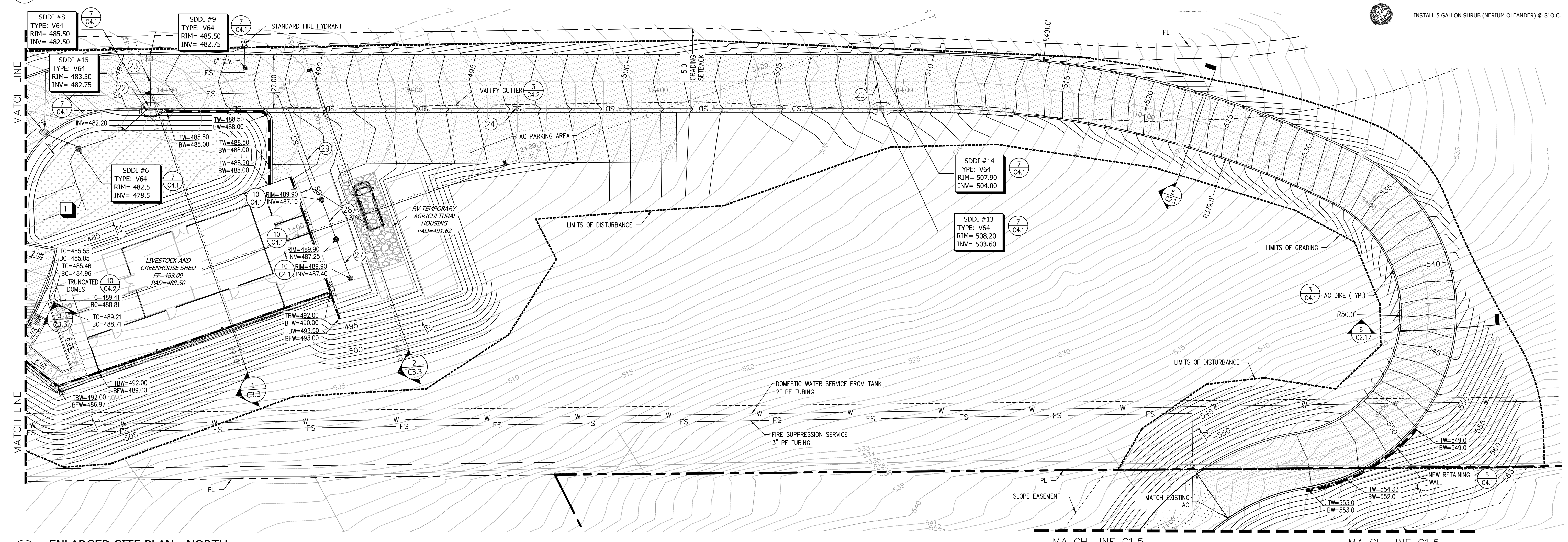
- BIO-RETENTION NOTES**
- BIO-RETENTION (BMP #2) 2355 SQ. FT. TOP OF SOIL EL = 482.0
  - BIO-RETENTION (BMP #3) 389 SQ. FT. TOP OF SOIL EL = 477.0
  - BIO-RETENTION (BMP #4) 375 SQ. FT. TOP OF SOIL EL = 470.0
- LEGEND**
- (N) AC (C4.1)
  - PROPERTY LINE
  - SD (N) STORM DRAIN PIPE
  - (T) TREE
  - PROPOSED CONTOUR
  - (N) RETAINING WALL

- STORM DRAINAGE PIPE DATA**
- 49 LF OF 8" SDR-35 @ 3.1% SLOPE
  - 32 LF OF 12" HDPE @ 62.5% SLOPE
  - 61 LF OF 6" SDR-35 @ 0.8% SLOPE
  - 34 LF OF 6" SDR-35 @ 1.0% SLOPE
  - 15 LF OF 6" SDR-35 @ 1.0% SLOPE
  - 48 LF OF 6" SDR-35 @ 1.0% SLOPE
  - 26 LF OF 6" SDR-35 @ 1.3% SLOPE
  - NA
  - 30 LF OF 10" SDR-35 @ 1.0% SLOPE
  - 157 LF OF 8" SDR-35 @ 7.4% SLOPE
  - 39 LF OF 8" SDR-35 @ 1.2% SLOPE
  - 63 LF OF 8" SDR-35 @ 19.8% SLOPE
  - 26 LF OF 6" SDR-35 @ 14.7% SLOPE
  - 18 LF OF 8" SDR-35 @ 1.1% SLOPE
  - 90 LF OF 6" SDR-35 @ 4.4% SLOPE
  - 132 LF OF 6" SDR-35 @ 6.8% SLOPE
  - 113 LF OF 6" SDR-35 @ 2.0% SLOPE
  - 27 LF OF 6" SDR-35 @ 2.0% SLOPE
  - 3 LF OF 6" SDR-35 @ 2.0% SLOPE
  - 88 LF OF 6" SDR-35 @ 20.2% SLOPE
  - 112 LF OF 6" SDR-35 @ 1.0% SLOPE
  - 10 LF OF 6" SDR-35 @ 3.0% SLOPE
  - 17 LF OF 6" SDR-35 @ 1.5% SLOPE
  - 305 LF OF 6" SDR-35 @ 7.0% SLOPE
  - 18 LF OF 6" SDR-35 @ 2.0% SLOPE
  - 70 LF OF 6" SDR-35 @ 1.3% SLOPE
  - 15 LF OF 6" SDR-35 @ 1.0% SLOPE
  - 15 LF OF 6" SDR-35 @ 1.0% SLOPE
  - 39 LF OF 6" SDR-35 @ 1.9% SLOPE

- STORM DRAINAGE NOTES:**
- CONNECT TO BUILDING DOWNSPOUT. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF DOWNSPOUT.
  - STORMWATER STORAGE CHAMBERS. AREA DIMENSIONS 244.0' X 6.33' SEE DETAIL 6, SHEET C4.2.
  - ATTACH STORM DRAIN LINE TO EXISTING SLOPE WITH CALTRANS STANDARD TIE-DOWNS AND CONCRETE COLLARS

- PLANTING LEGEND (WALL SCREENING)**
- INSTALL 5 GALLON VINE (CAMPSIS RADICANS) @ 6' O.C.
  - INSTALL 5 GALLON SHRUB (NERIUM OLEANDER) @ 8' O.C.

1 ENLARGED SITE PLAN - SOUTH



2 ENLARGED SITE PLAN - NORTH

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

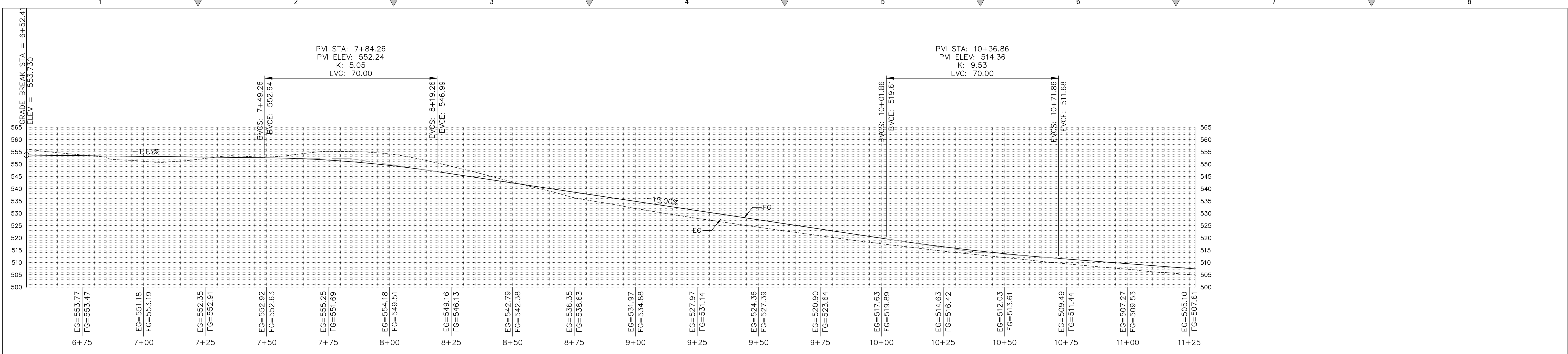
**ENLARGED SITE PLAN**

REGISTERED PROFESSIONAL ENGINEER  
TODD R. CRAMER  
No. C 64561  
Exp. 6/30/25  
CIVIL  
STATE OF CALIFORNIA

**C2G CIVIL CONSULTANTS GROUP, INC.**  
Engineers/Planners  
4400 Scotts Valley Blvd., Suite 6  
Scotts Valley, CA 95066  
T (831) 438-4420 F (831) 438-4420  
By: EAS/AM/ML

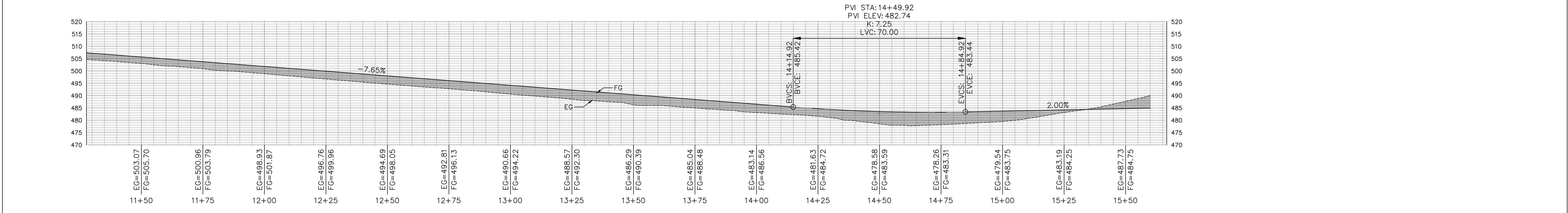
**BARSANA RESIDENCE**  
AUGUSTE COURT  
APN: 029-35-007

Date: 09/27/23  
Scale: 1" = 20'  
Drawn: DD  
Job: 3007.02  
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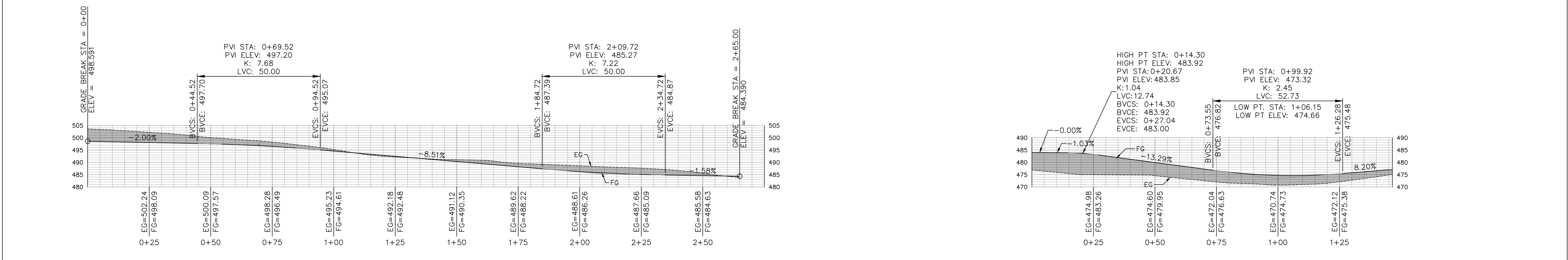
1 MAIN ROAD PROFILE - STA. 6+52 TO 11+28

Scale: 1:20



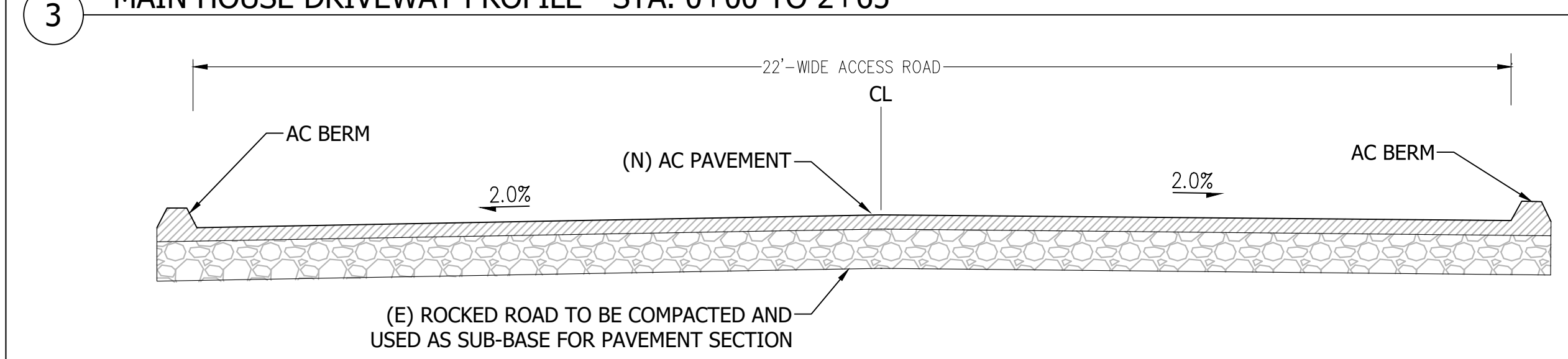
2 MAIN ROAD PROFILE - STA. 11+28 TO 15+60

Scale: 1:20



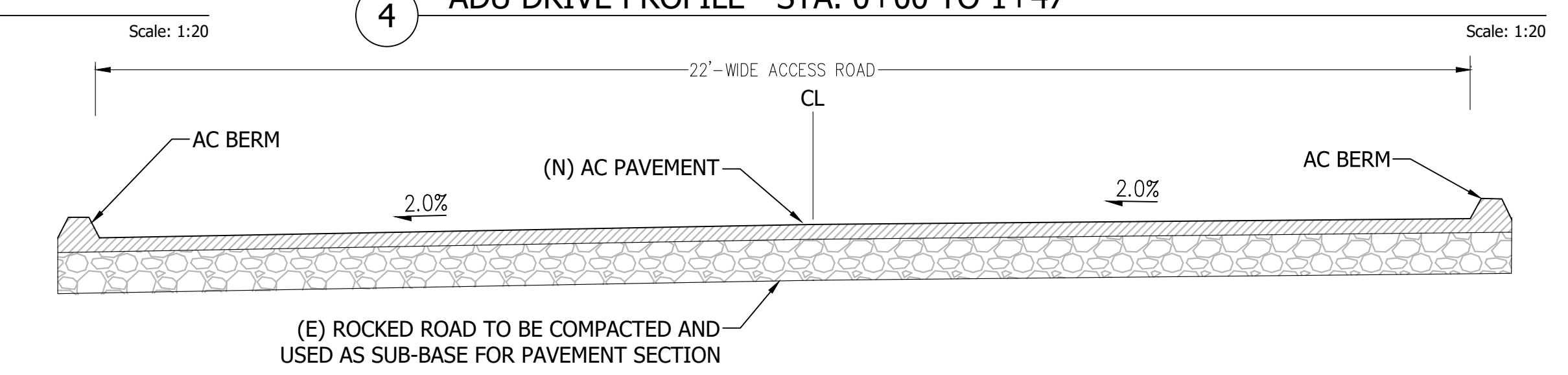
3 MAIN HOUSE DRIVEWAY PROFILE - STA. 0+00 TO 2+65

4 ADU DRIVE PROFILE - STA. 0+00 TO 1+47



5 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

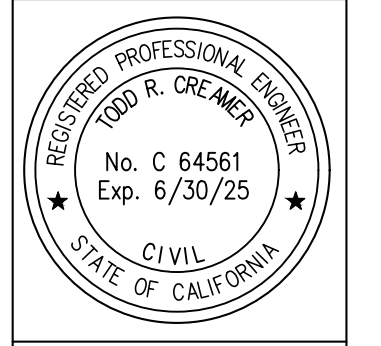


6 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

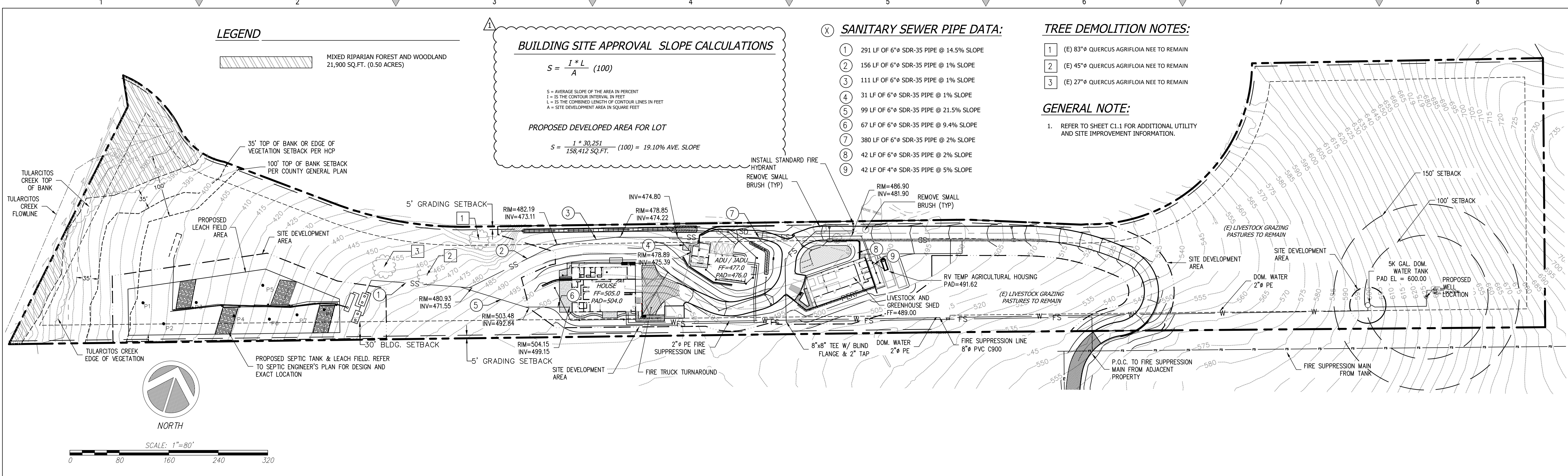
PROFILES / SECTIONS



**C2G CIVIL CONSULTANTS GROUP, INC.**  
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 4400 Scotts Valley Blvd., Suite 6  
 Scotts Valley, CA 95066  
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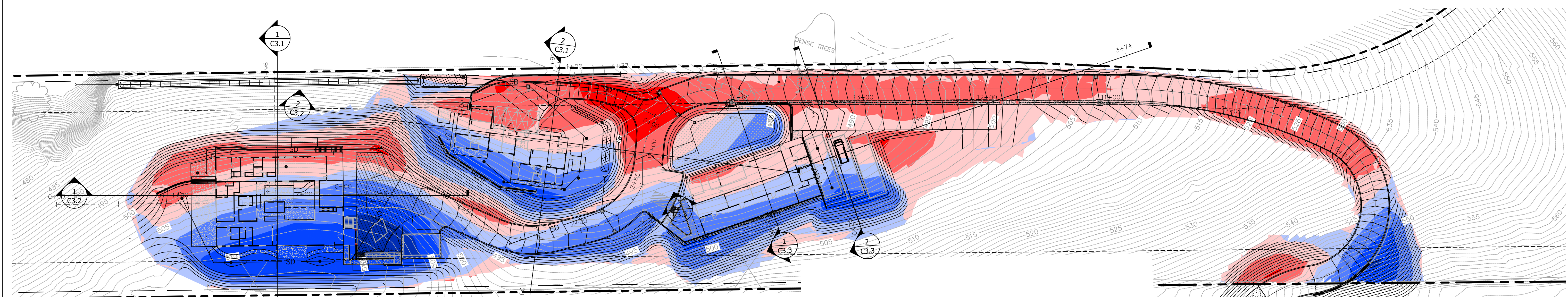
**BARSANA RESIDENCE**  
**AUGUSTE COURT**  
 APN: 029-35-007

Date:	09/27/23
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C2.1



1 ENLARGED SITE PLAN

Scale: 1"=80'



2 CUT AND FILL ANALYSIS

Scale: 1"=40'

**PROJECT EARTHWORK QUANTITIES**

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECOMPACTION, UTILITY TRENCH SPOILS & SOIL EXPANSION AND CONTRACTION FACTORS.

DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
MAIN RESIDENCE BLDG + 5' PERIMETER	773	279	494(C)	10.6	4.6
MAIN RESIDENCE SITE GRADING & DWY	2528	518	2010(C)	10.8	5.7
ADU/JADU BLDG + 5' PERIMETER	161	87	74(C)	5.6	4.0
ADU/JADU SITE GRADING & DWY	563	953	390(F)	7.2	7.3
ROAD (APN 029-35-007)	527	1826	1299(F)	8.4	7.7
ROAD (APN 029-34-004)	1870	3101	1231(F)	9.0	9.3
LIVESTOCK AND GREENHOUSE SHED RV PARKING + 5' PERIMETER	479	164	315(C)	7.0	3.2
LIVESTOCK AND GREENHOUSE SHED SITE GRADING AND DWY	712	646	66(C)	7.0	5.4
<b>TOTAL</b>	<b>7613</b>	<b>7574</b>	<b>39(C)</b>		

**NET VOLUME = 39 CU.YDS. OF CUT**

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

**Elevations Table**

Number	Minimum Elevation	Maximum Elevation	Area	Color
1	-11.00	-8.00	1595.74	Blue
2	-8.00	-5.00	7420.26	Blue
3	-5.00	-2.00	16853.64	Blue
4	-2.00	0.00	22029.55	Light Blue
5	0.00	2.00	40126.60	Light Red
6	2.00	5.00	13504.60	Red
7	5.00	8.00	773.62	Red
8	8.00	10.00	0.00	Red

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

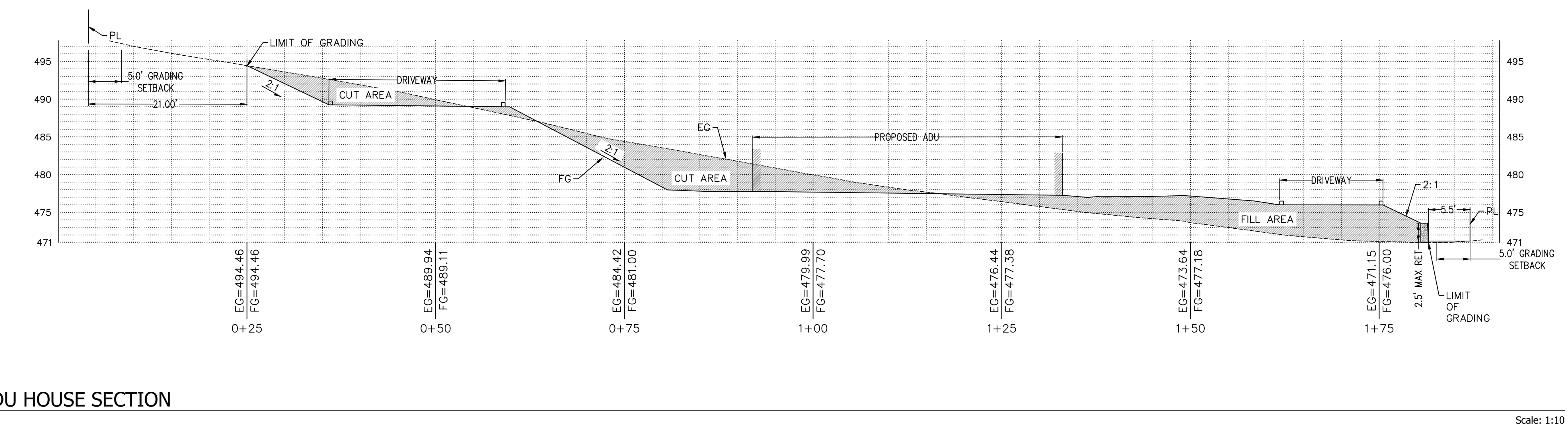
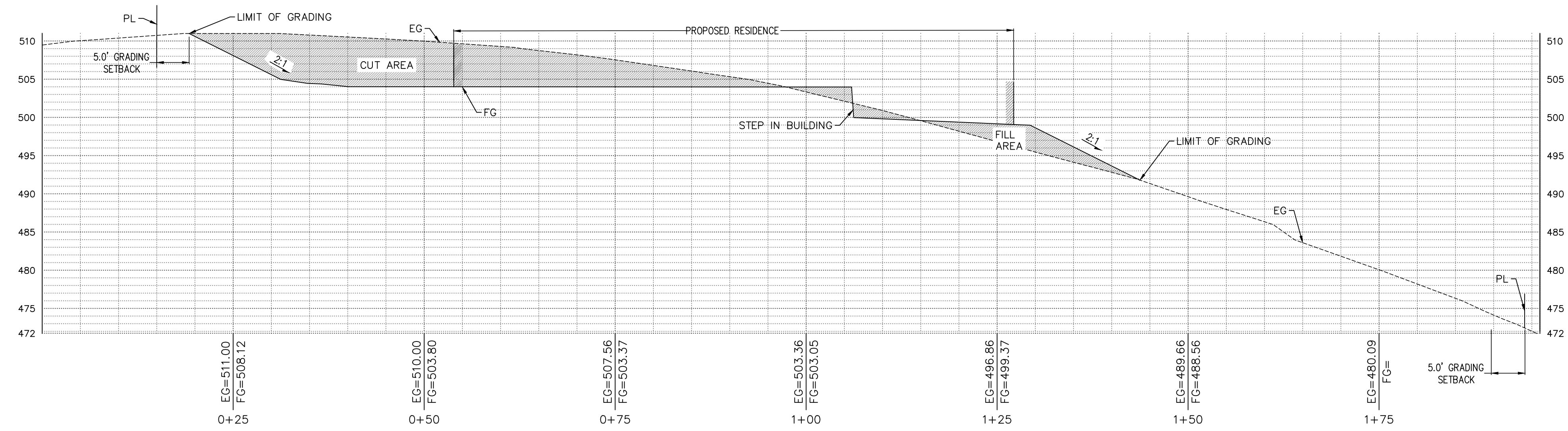
**OVERALL SITE PLAN & CUT/FILL ANALYSIS**

REGISTERED PROFESSIONAL ENGINEER  
TODD R. CREMER  
No. C 64561  
Exp. 6/30/25  
CIVIL  
STATE OF CALIFORNIA

**C2G CIVIL CONSULTANTS GROUP, INC.**  
Engineers/Planners  
44000 Highway 101  
Scotts Valley, CA 95066  
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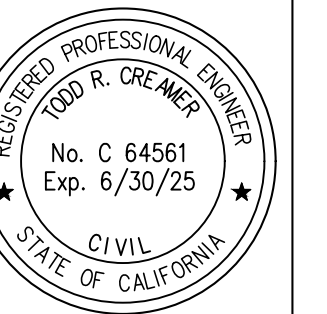
**BARSANA RESIDENCE**  
AUGUSTE COURT  
APN: 029-35-007

Date: 09/27/23  
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Drawn: DD  
Job: 3007.02  
Sheet: C3.0  
of 37 Sheets



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1 RESPONSE TO SCC COMMENTS 11/05/21	DD
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3 RESPONSE TO SCC COMMENTS 05/25/23	DD

CUT/FILL SECTIONS



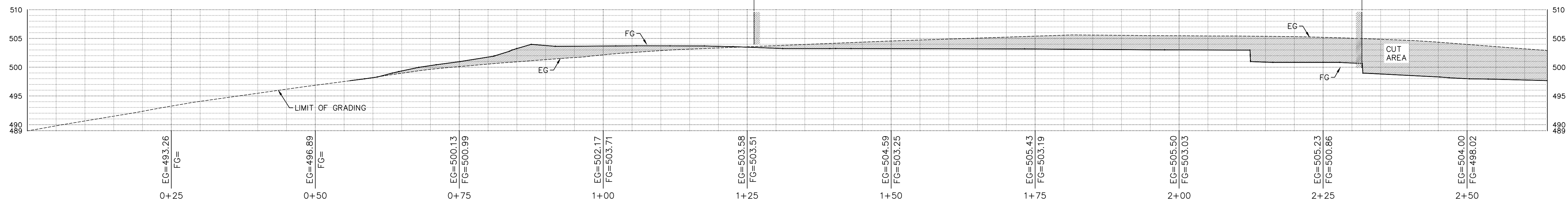
**C2G CIVIL CONSULTANTS GROUP, INC.**  
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 APN: 029-35-007

Date:	09/27/23
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Sheet:	C3.1
Of	37 Sheets

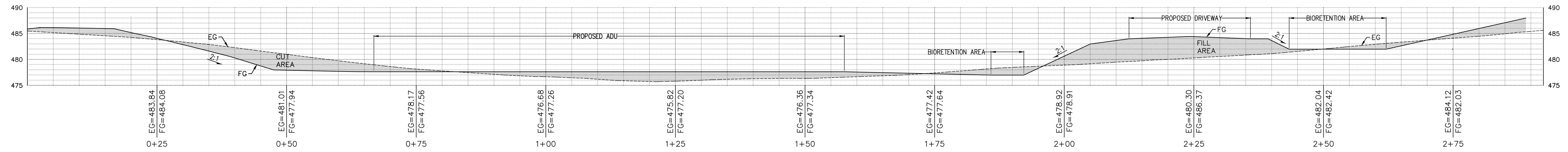
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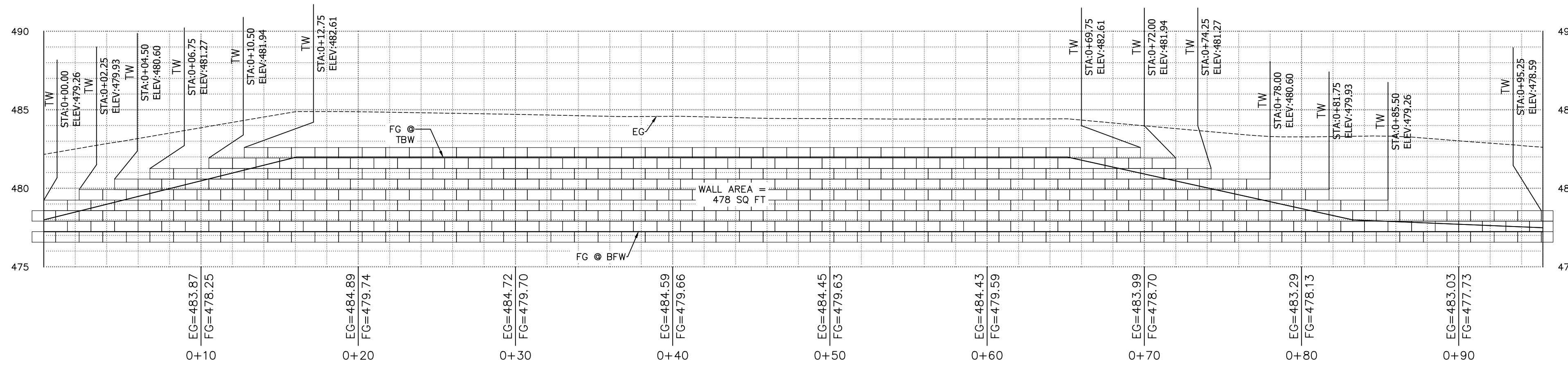
1 MAIN HOUSE CROSS SECTION

Scale: 1:10



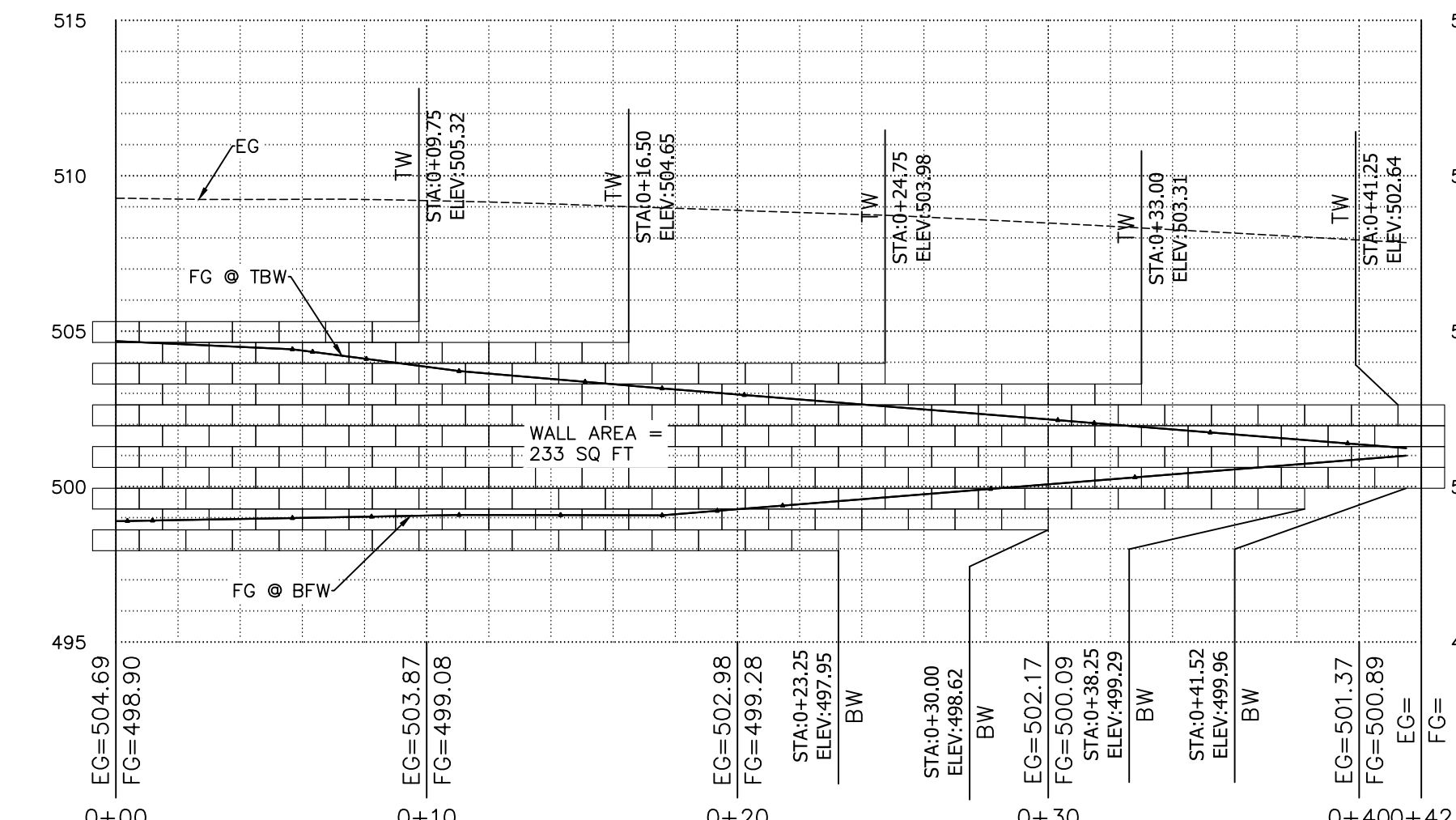
2 ADU HOUSE CROSS SECTION

Scale: 1:10



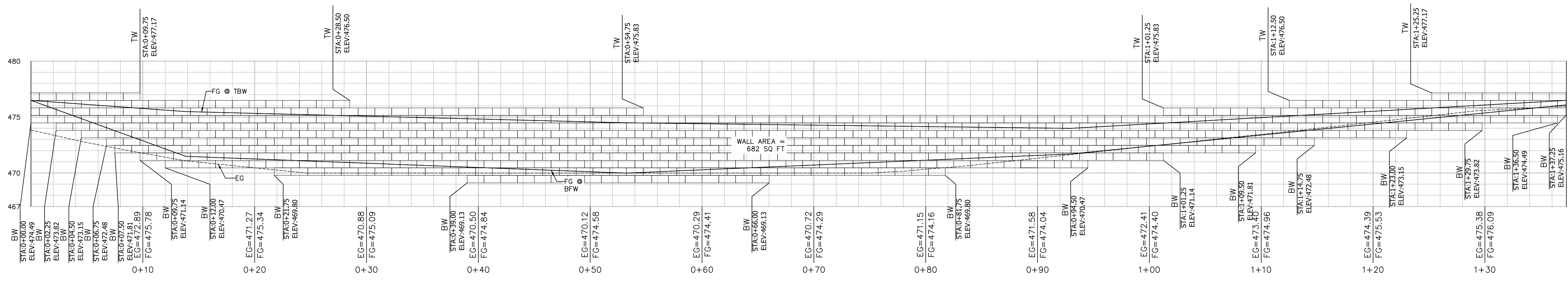
3 ADU WALL SECTION @ SIDEYARD

Scale: 1:5



4 FIRE TURNAROUND WALL SECTION

Scale: 1:5

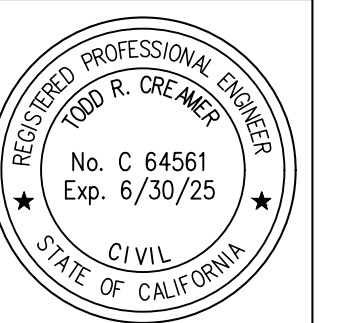


5 ADU WALL SECTION @ DRIVEWAY

Scale: 1:5

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1 RESPONSE TO SCC COMMENTS 11/05/21	DD
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3 RESPONSE TO SCC COMMENTS 05/25/23	DD

CUT/FILL SECTIONS

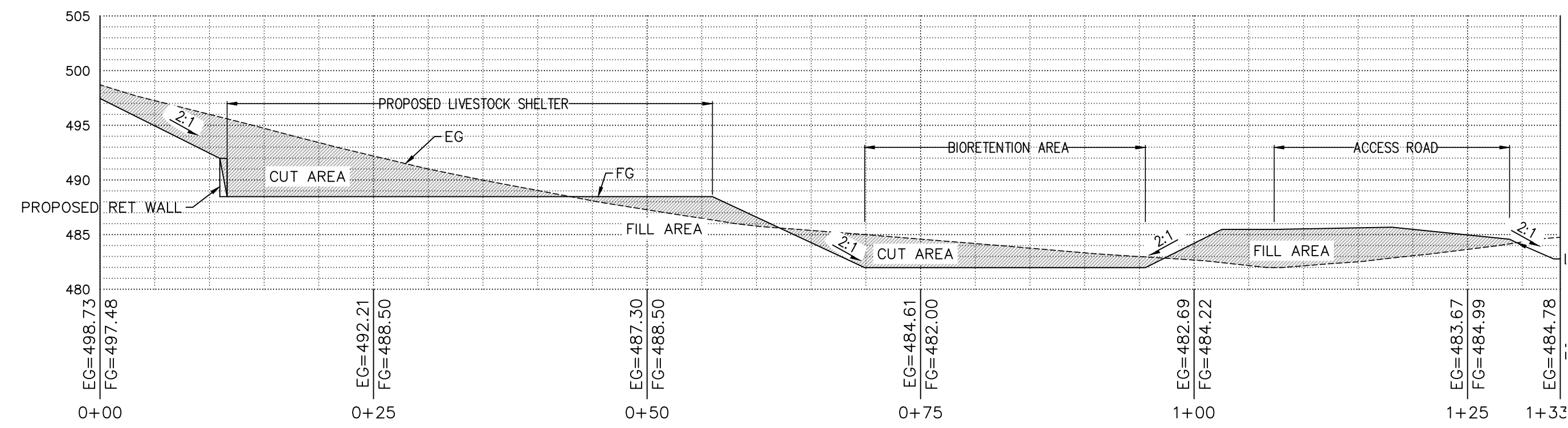


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**BARSANA RESIDENCE**  
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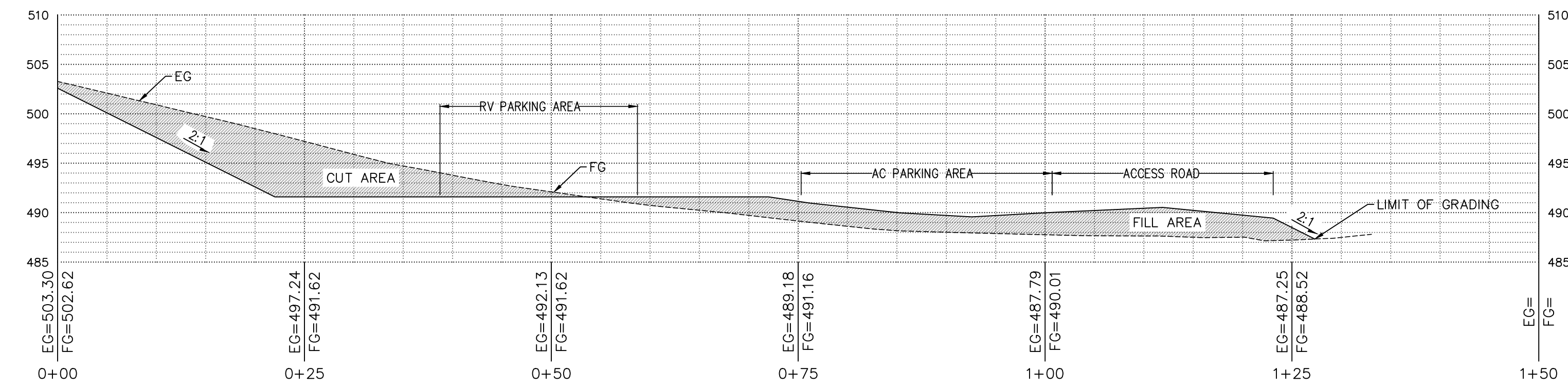
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Of	37 Sheets

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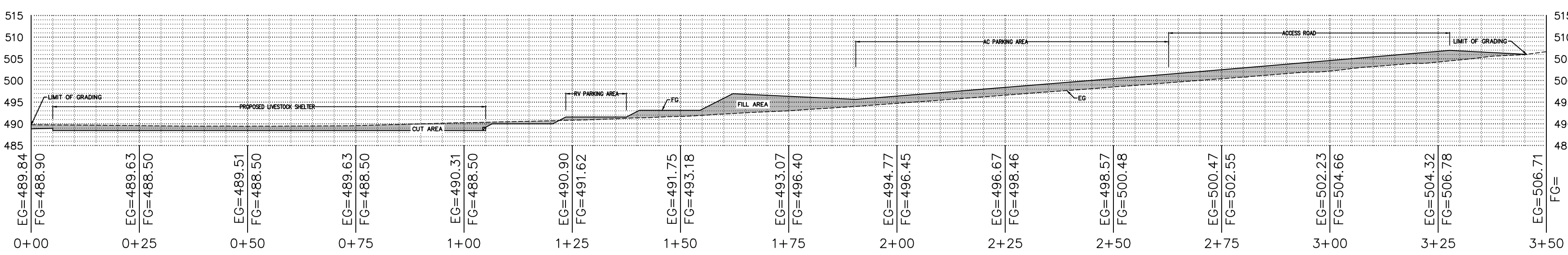
1 LIVESTOCK AND GREENHOUSE SHED CROSS SECTION

Scale: 1"=10'



2 RV PARKING AREA CROSS SECTION

Scale: 1"=10'

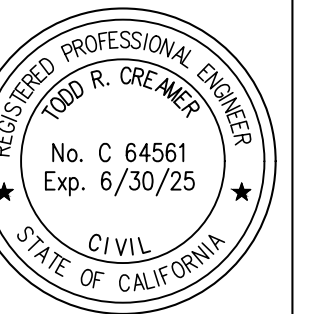


3 LIVESTOCK AND GREENHOUSE SHED AND RV PARKING AREA CROSS SECTION

Scale: 1"=20'

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1 RESPONSE TO SCC COMMENTS 11/05/21	DD
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3 RESPONSE TO SCC COMMENTS 05/25/23	DD

CUT/FILL SECTIONS

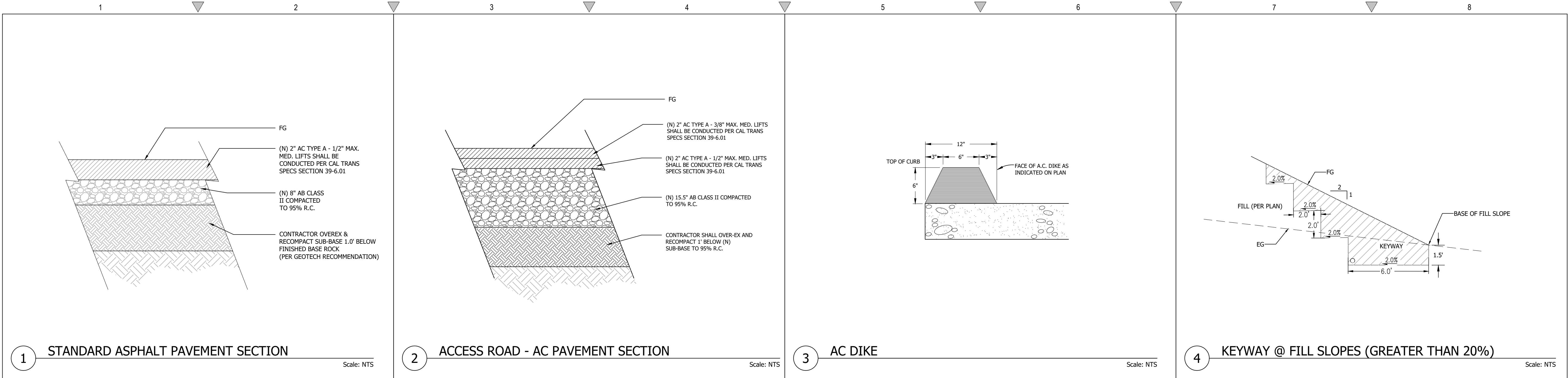


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 Lic. # 44561 - Civil Engineer - Exp. 6/30/25

**BARSANA RESIDENCE**  
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Date: 09/27/23  
 Scale: X" = XX"  
 Drawn: DD  
 Job: 3007.02  
 Sheet:  
**C3.3**  
 Of 37 Sheets

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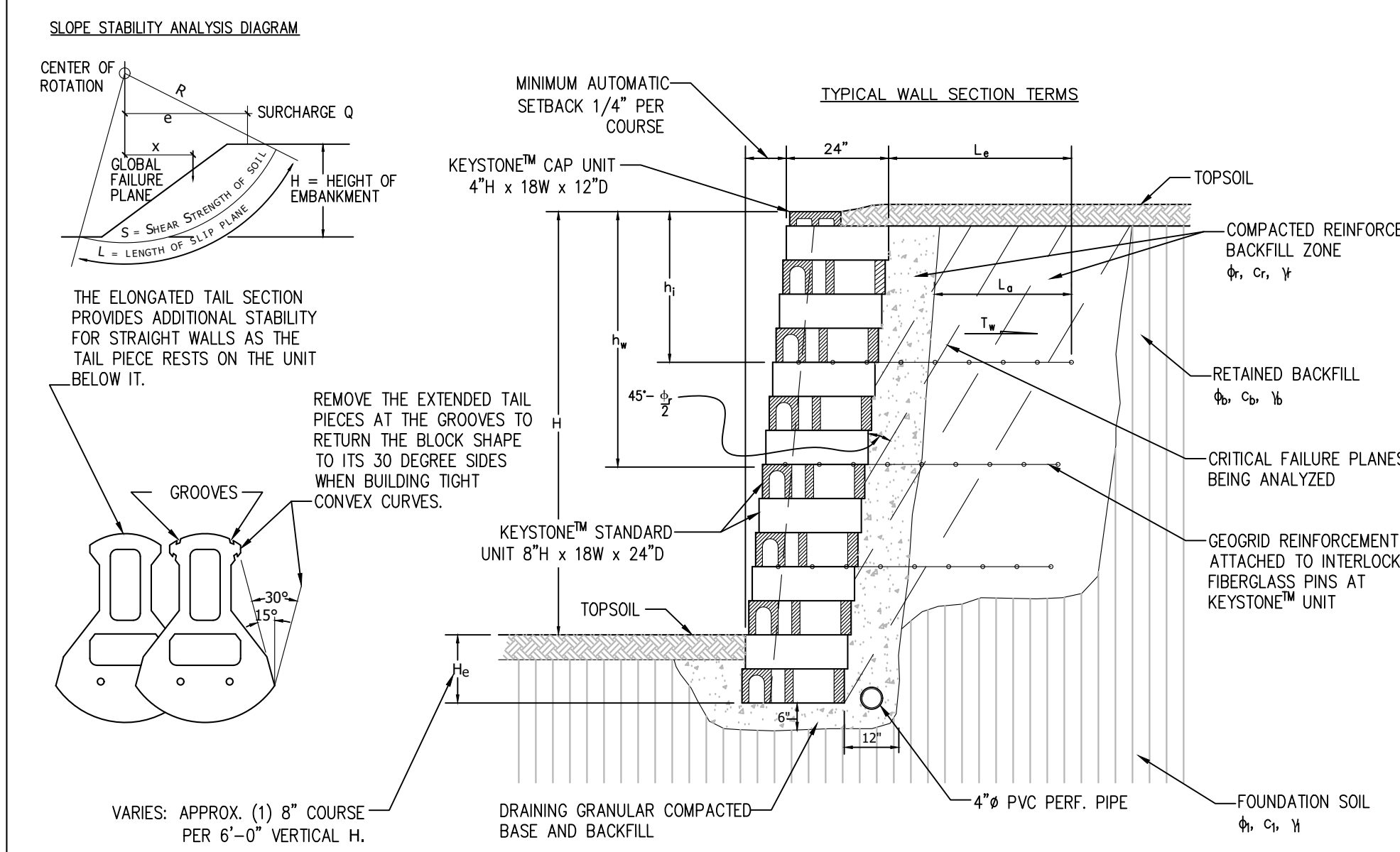


1 STANDARD ASPHALT PAVEMENT SECTION  
Scale: NTS

2 ACCESS ROAD - AC PAVEMENT SECTION  
Scale: NTS

3 AC DIKE  
Scale: NTS

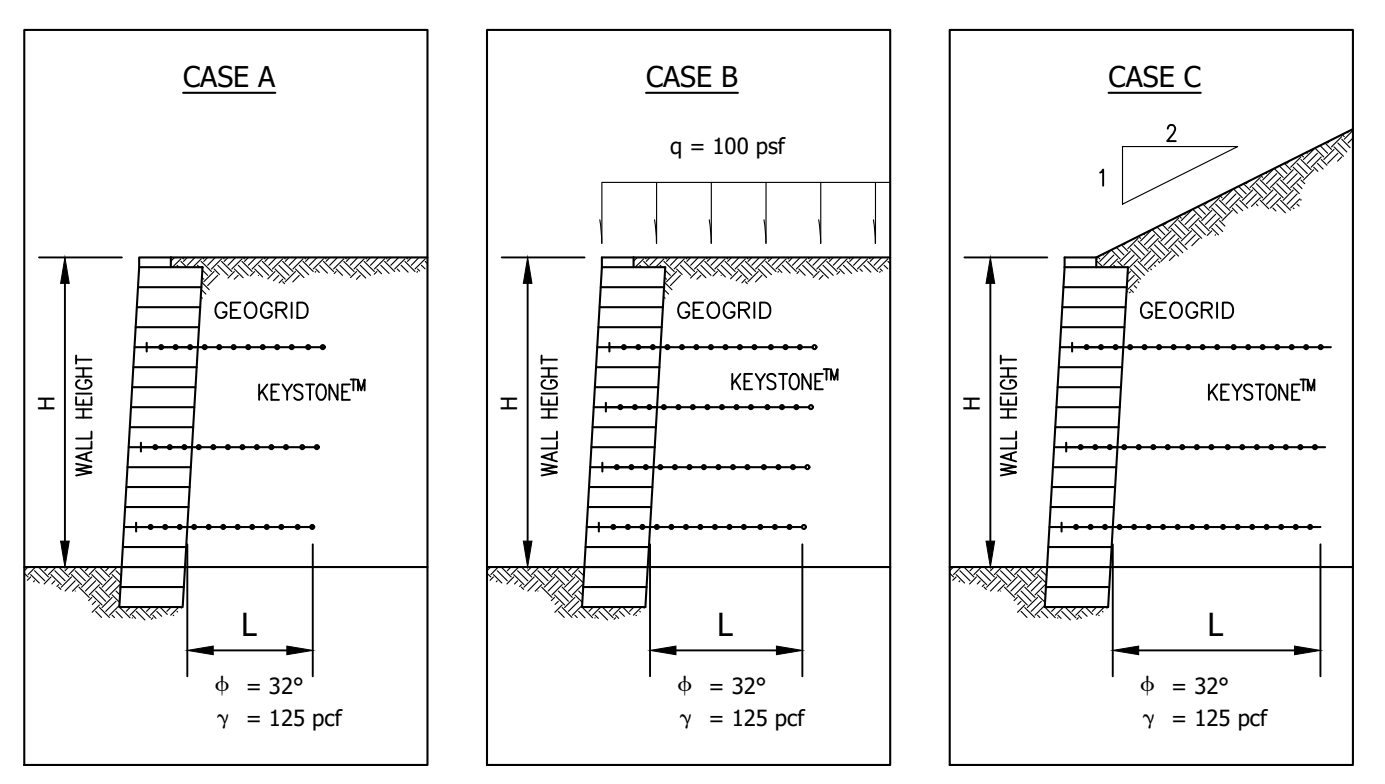
4 KEYWAY @ FILL SLOPES (GREATER THAN 20%)  
Scale: NTS



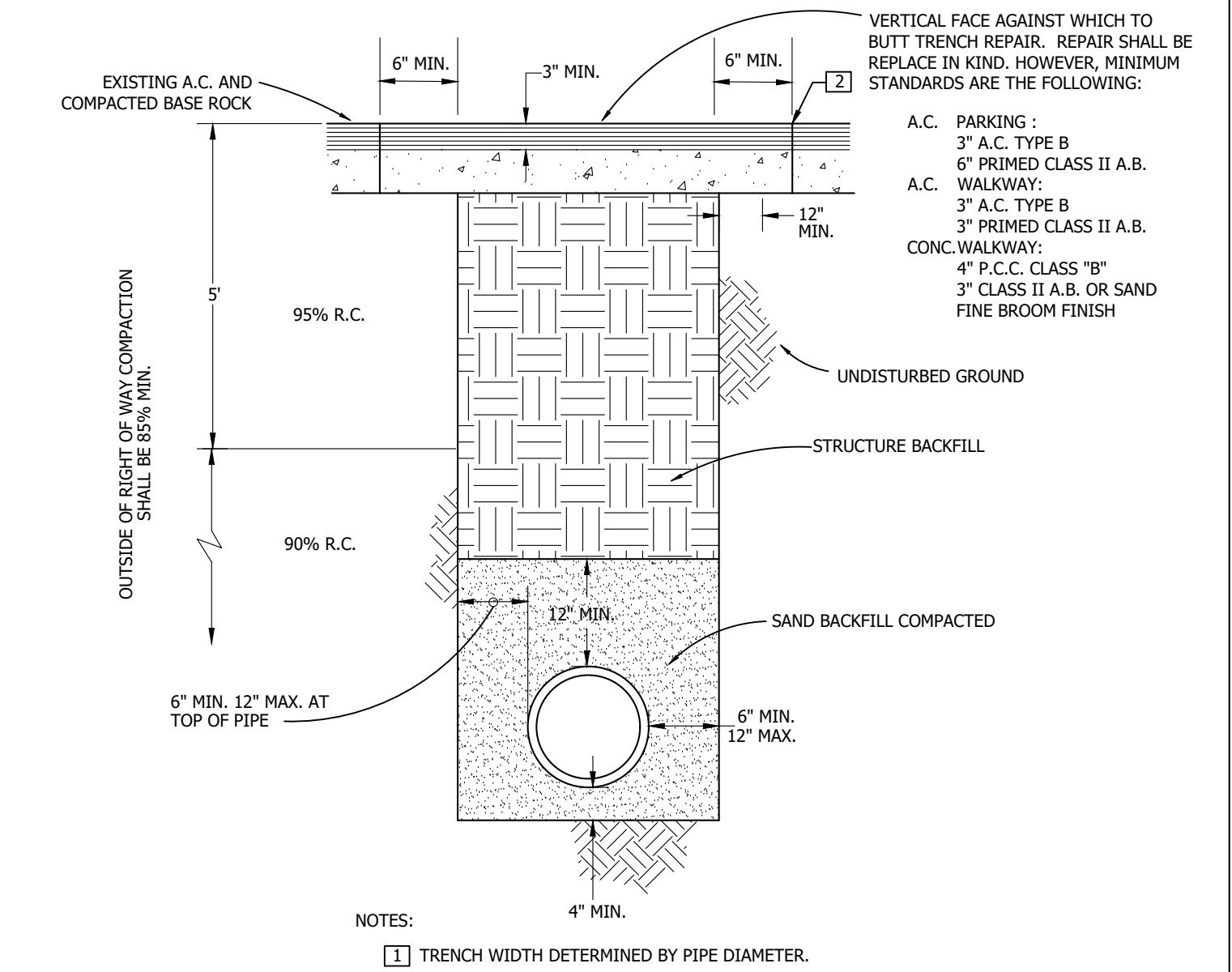
5 KEYSTONE BLOCK RETAINING WALL  
Scale: NTS

BASIC GEOGRID PLACEMENT CHART \*

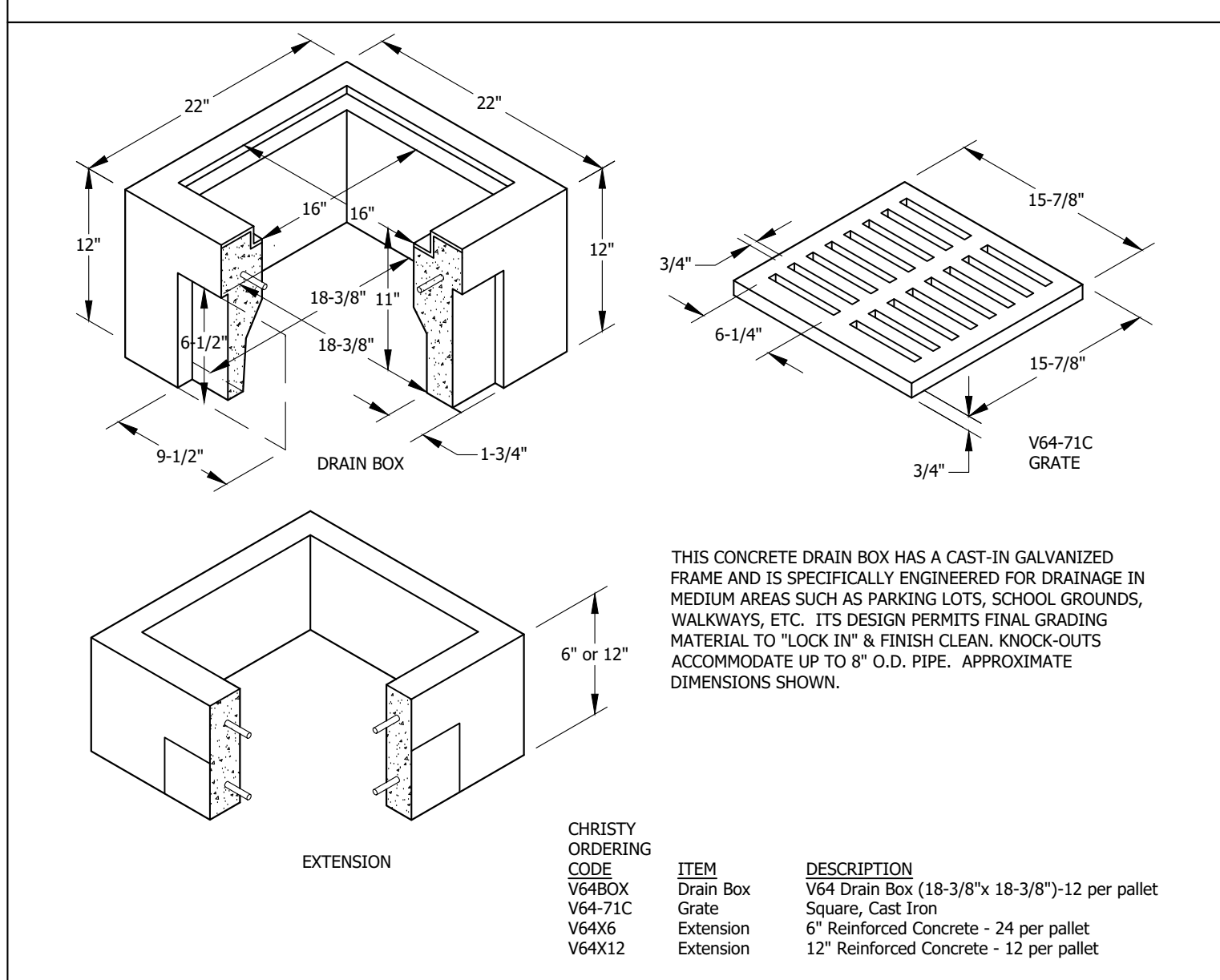
WALL HEIGHT FEET	CASE	GRID TYPE	NUMBER OF LAYERS	GEOGRID LENGTH FEET	GEOGRID LAYER NUMBER
4	A	-	-	-	1 2 3 4 5
4	B	-	-	-	
4	C	1	2.5	1.5	
5	A	-	-	-	
5	B	1	2.5	2	
5	C	2	3.7	1.3	3.3
6	A	1	2.5	2.7	
6	B	2	2.5	1.3	3.3
6	C	3	4.3	.7	2 4
7	A	2	3.0	1.3	4.0
7	B	3	3.0	1.3	2.7 4.7
7	C	3	4.9	1.3	2.7 4.7
8	A	3	3.2	1.3	3.3 5.3
8	B	4	3.5	.7	2.7 4.7 6.7
8	C	3	5.8	1.3	3.3 5.3
10	A	3	4.3	1.3	4 6.7
10	B	4	4.6	1.3	3.3 5.3 7.3
10	C	3	7.0	1.3	4.0 6.7



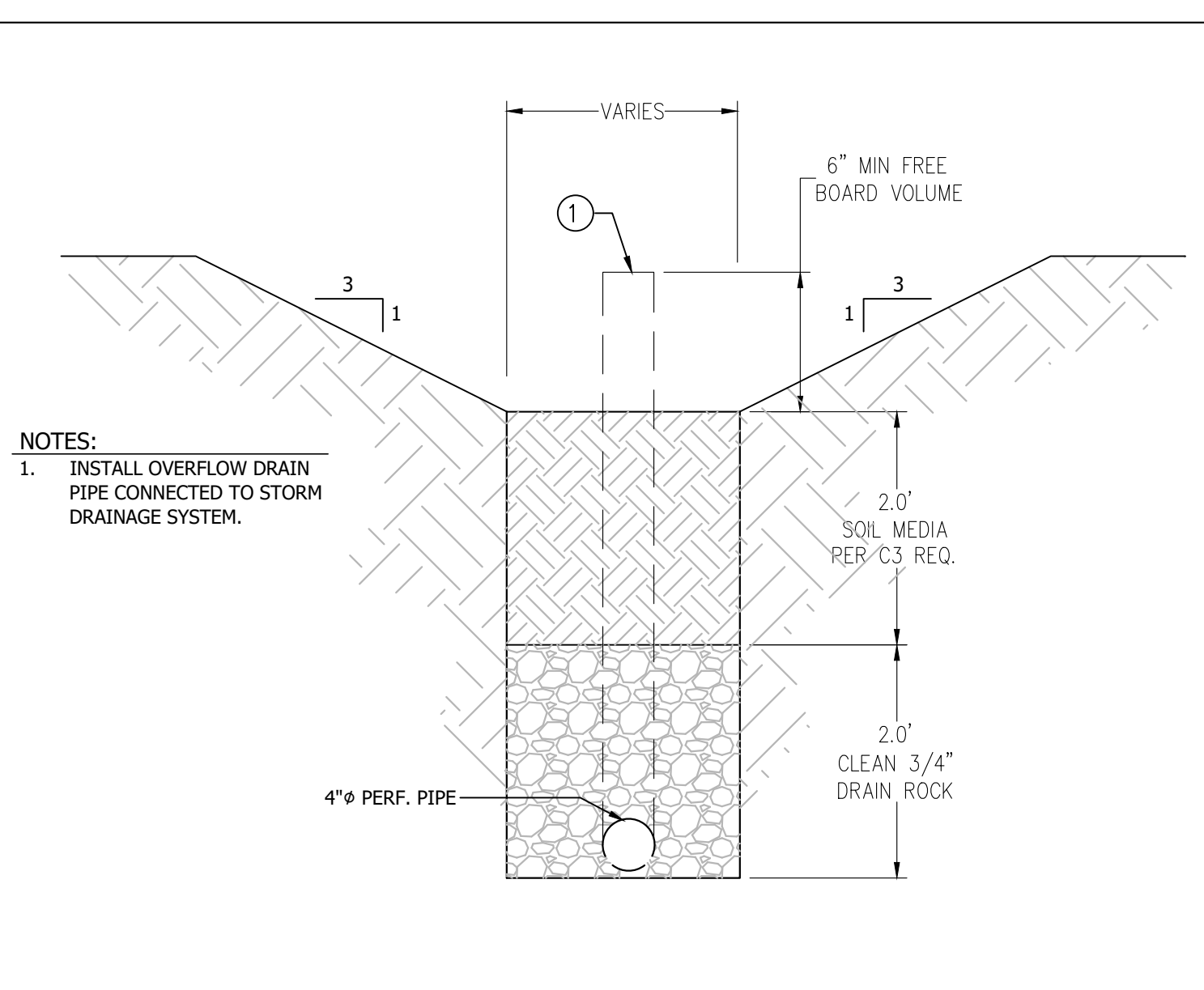
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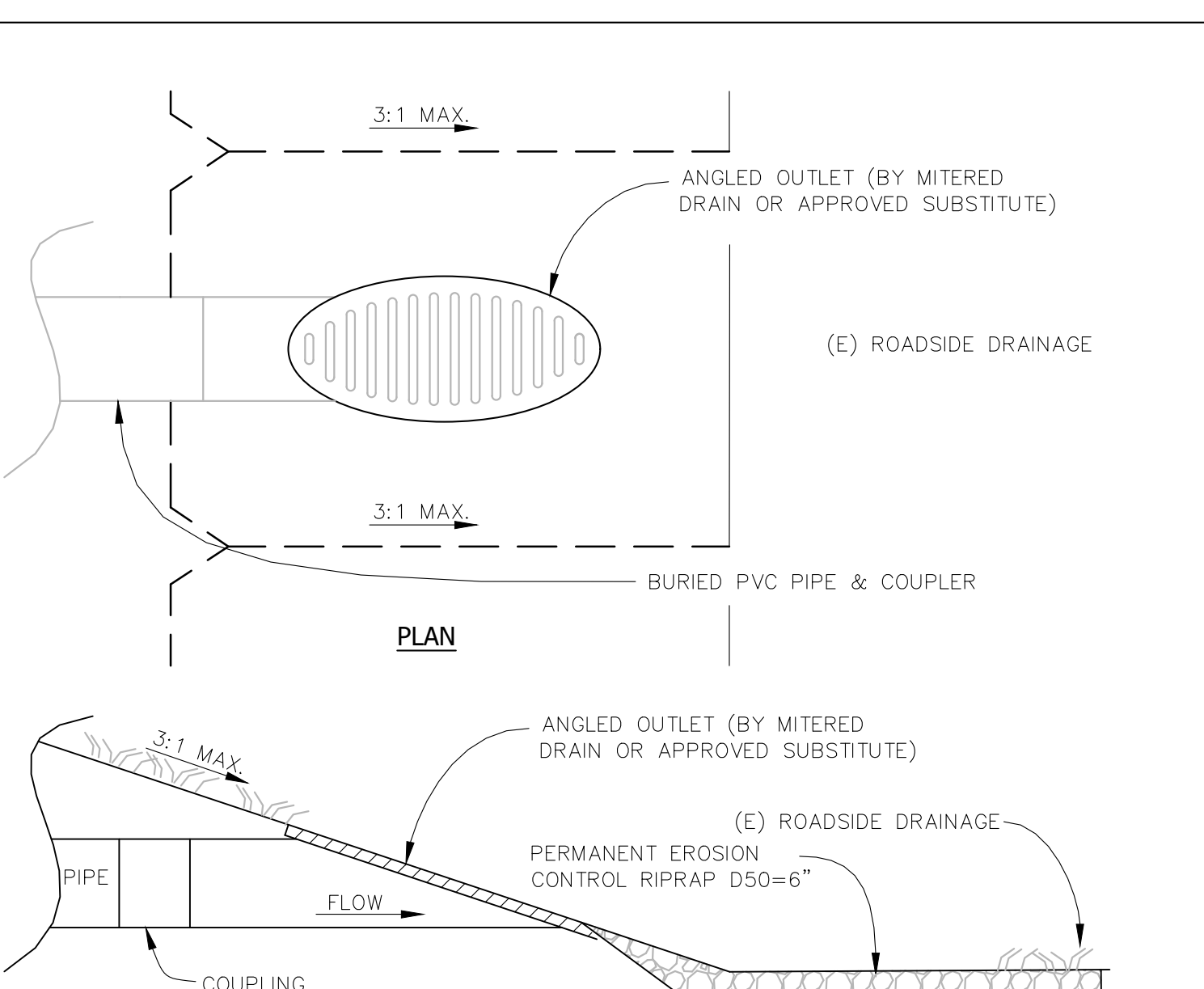
6 TRENCH INSTALLATION DETAIL  
Scale: NTS



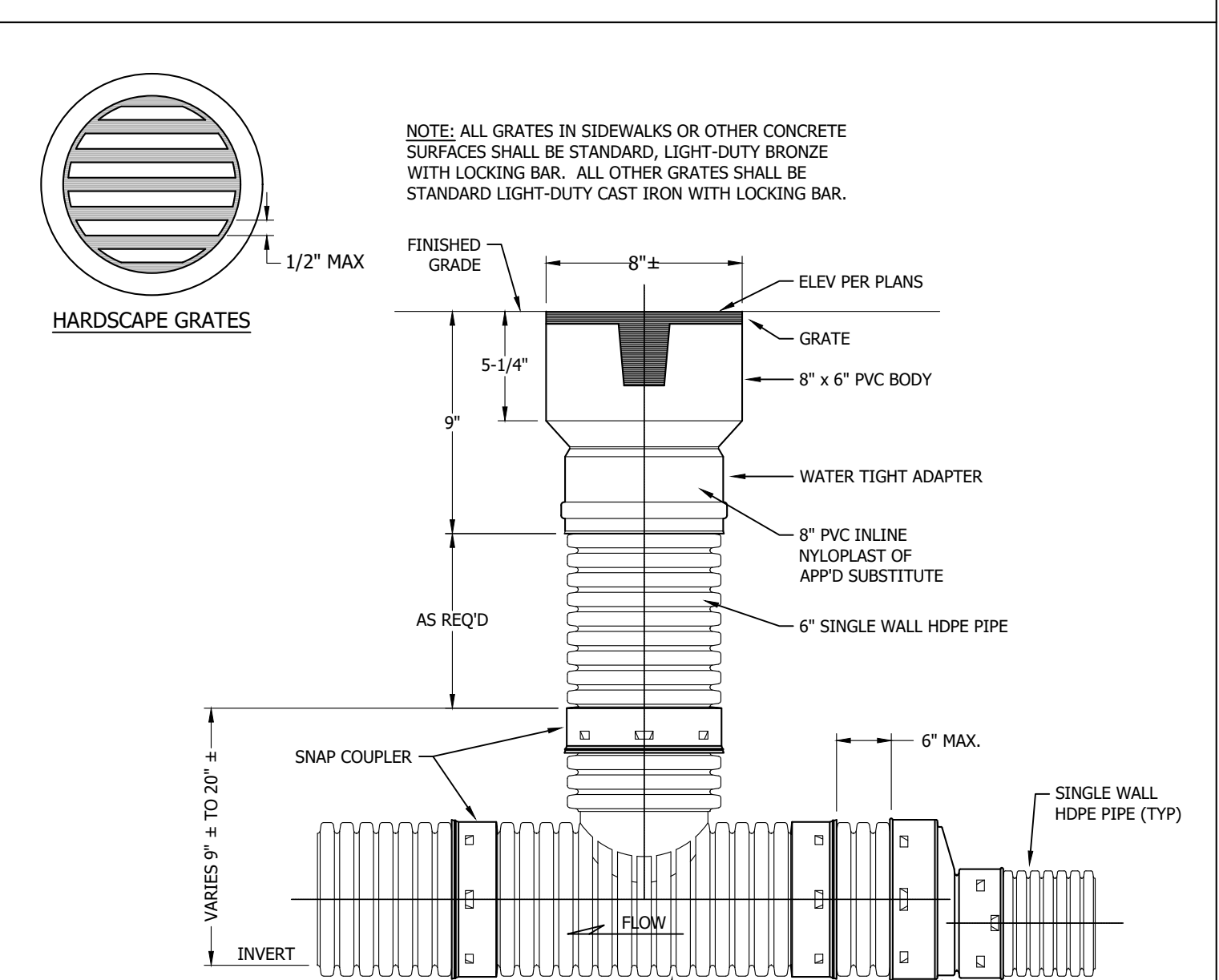
7 V64 STORM DRAIN INLET  
Scale: NTS



8 PRINSCO CHAMBER SECTION  
Scale: NTS



9 MITERED OUTLET  
Scale: NTS



10 8" INLINE AREA DRAIN  
Scale: NTS

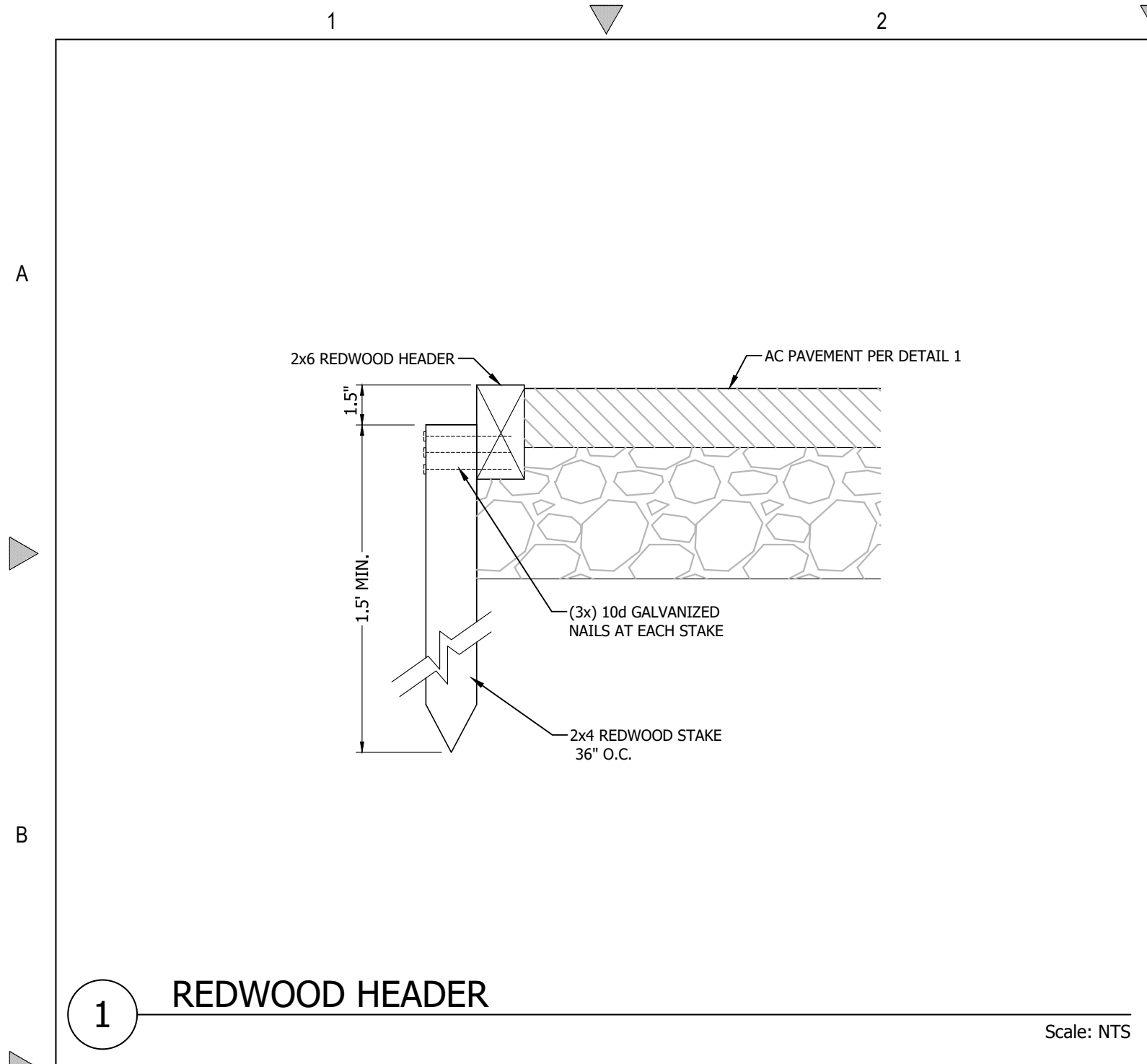
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

**DETAILS**

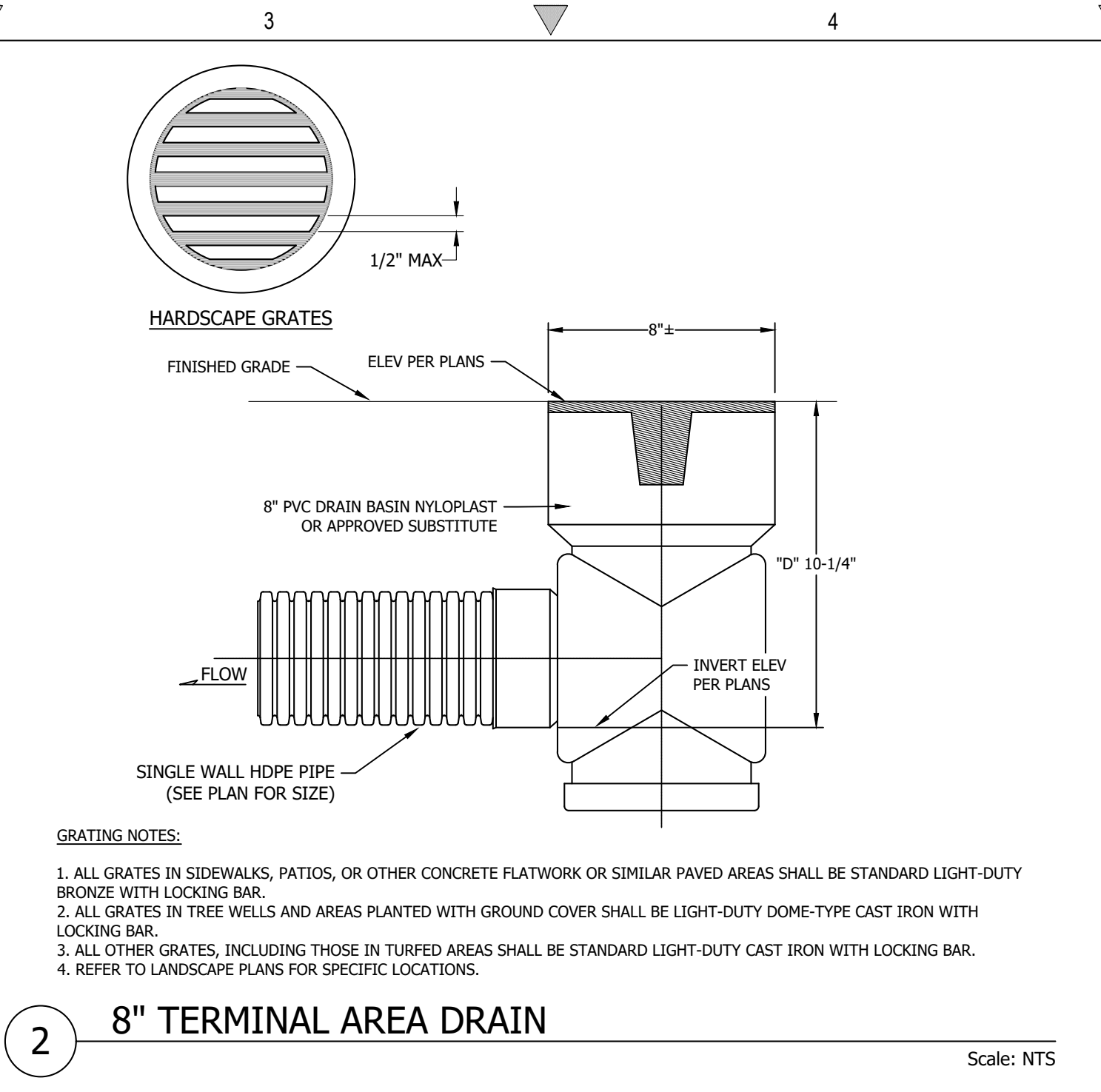
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**BARSANA RESIDENCE**  
AUGUSTE COURT  
APN: 029-35-007

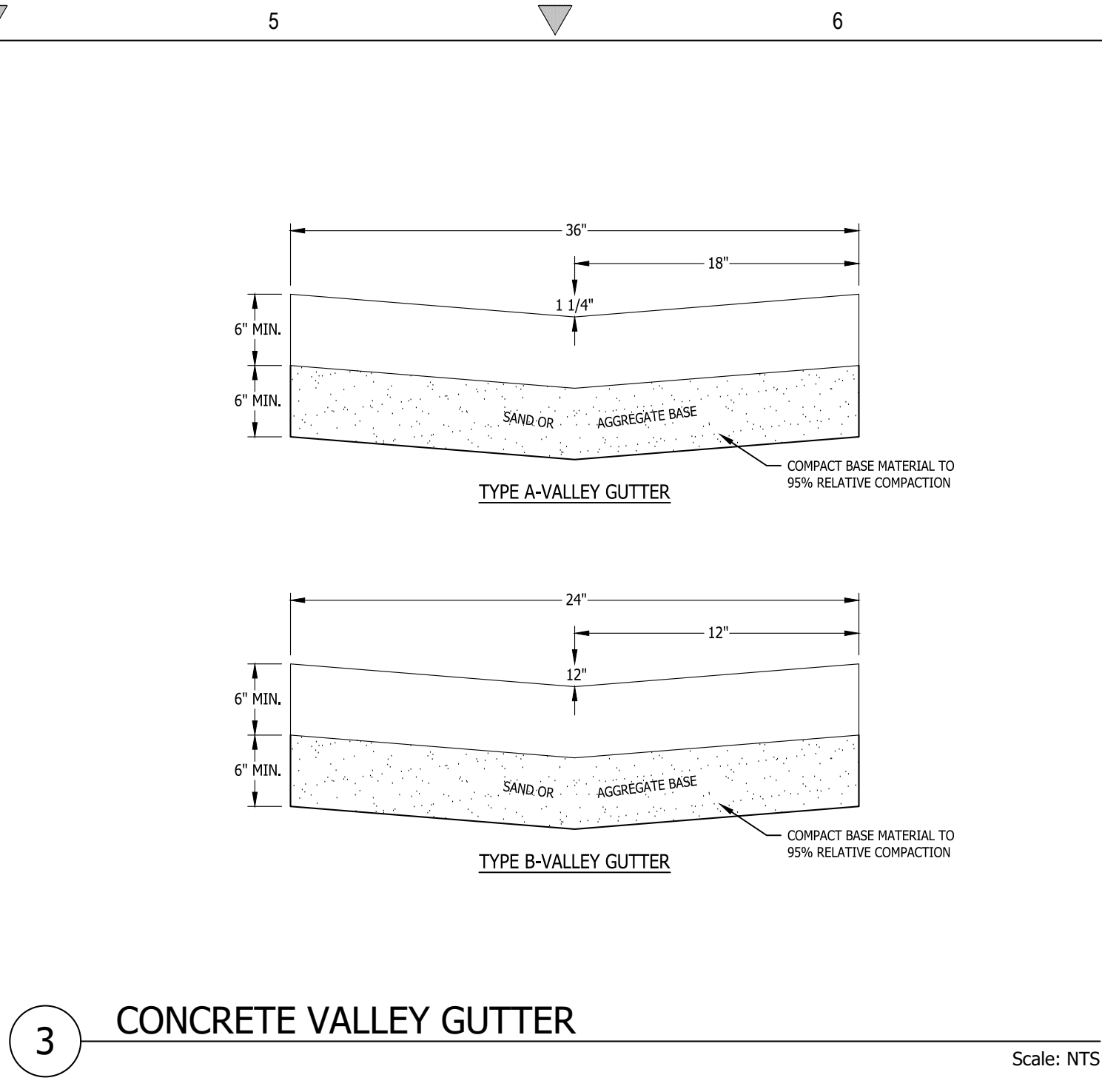
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Of 37 Sheets



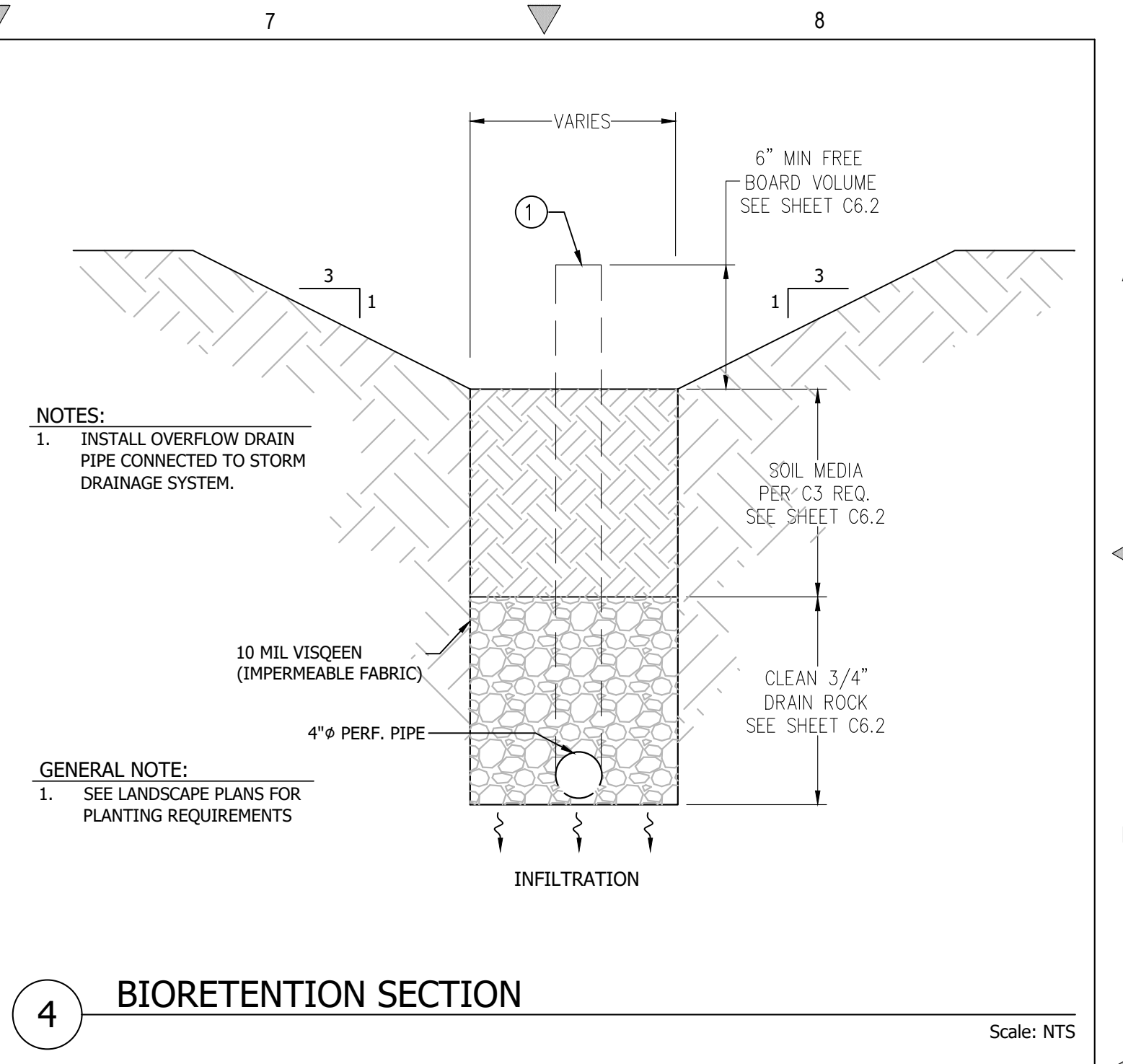
**1 REDWOOD HEADER** Scale: NTS



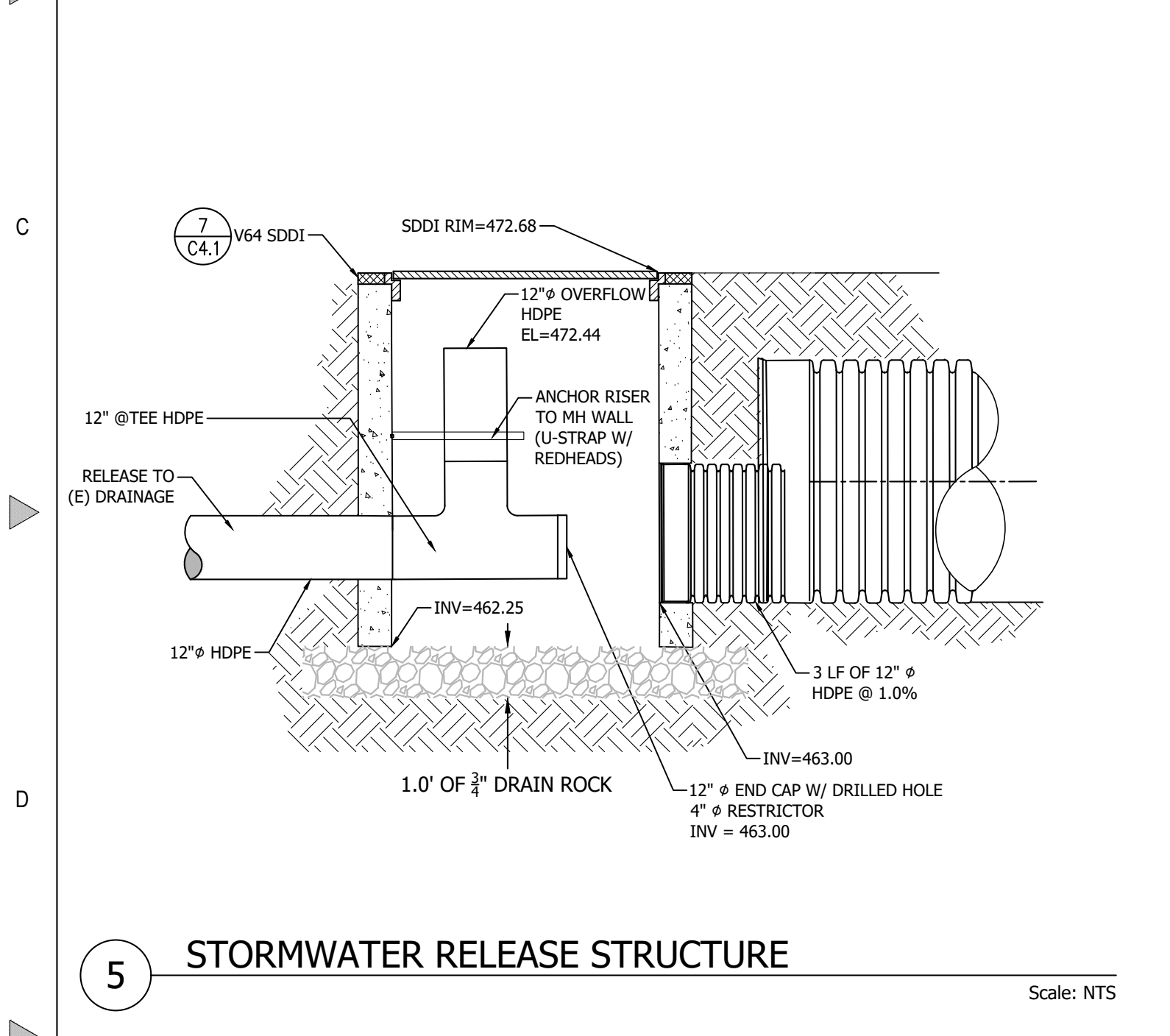
**2 8" TERMINAL AREA DRAIN** Scale: NTS



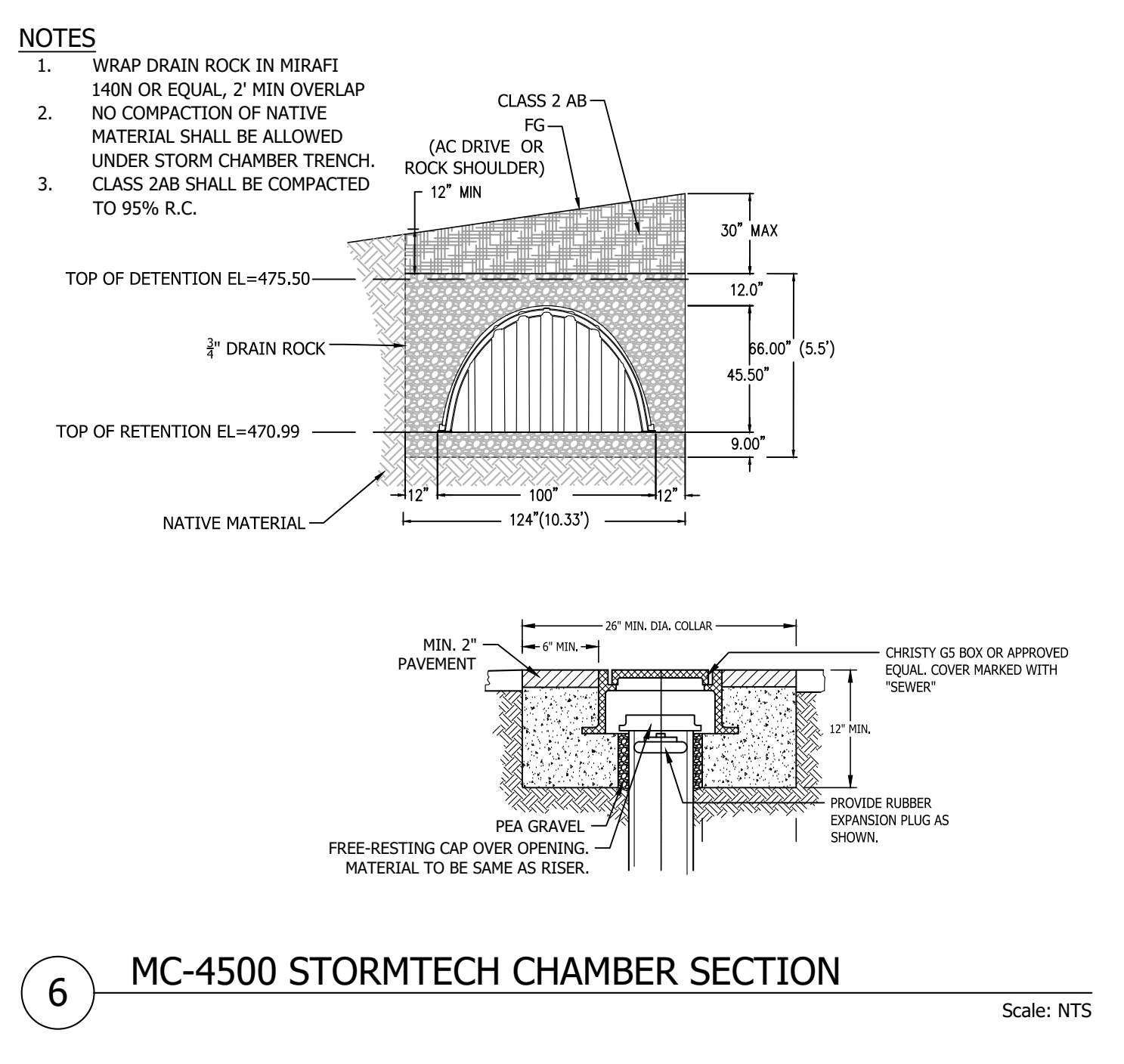
**3 CONCRETE VALLEY GUTTER** Scale: NTS



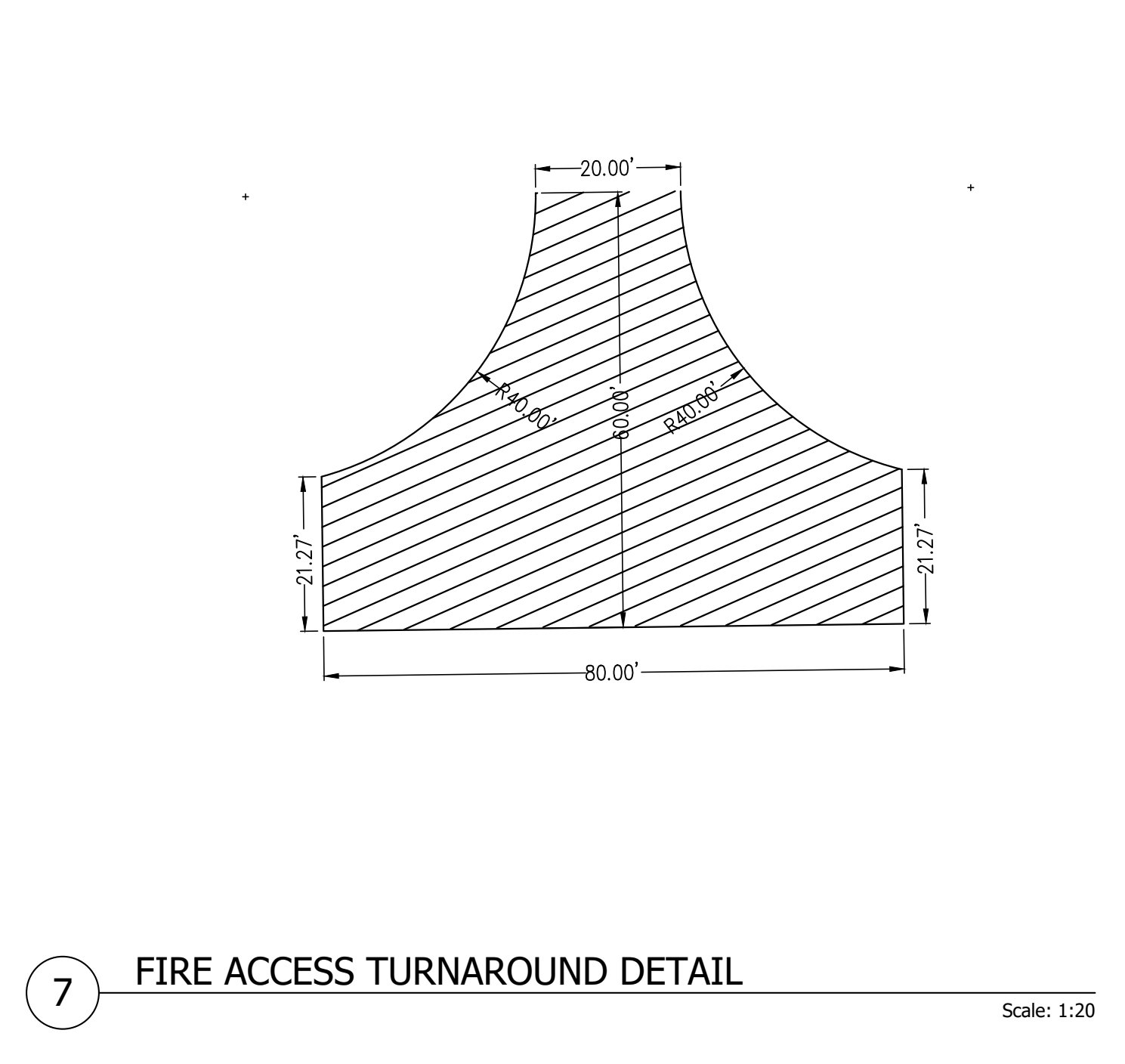
**4 BIORETENTION SECTION** Scale: NTS



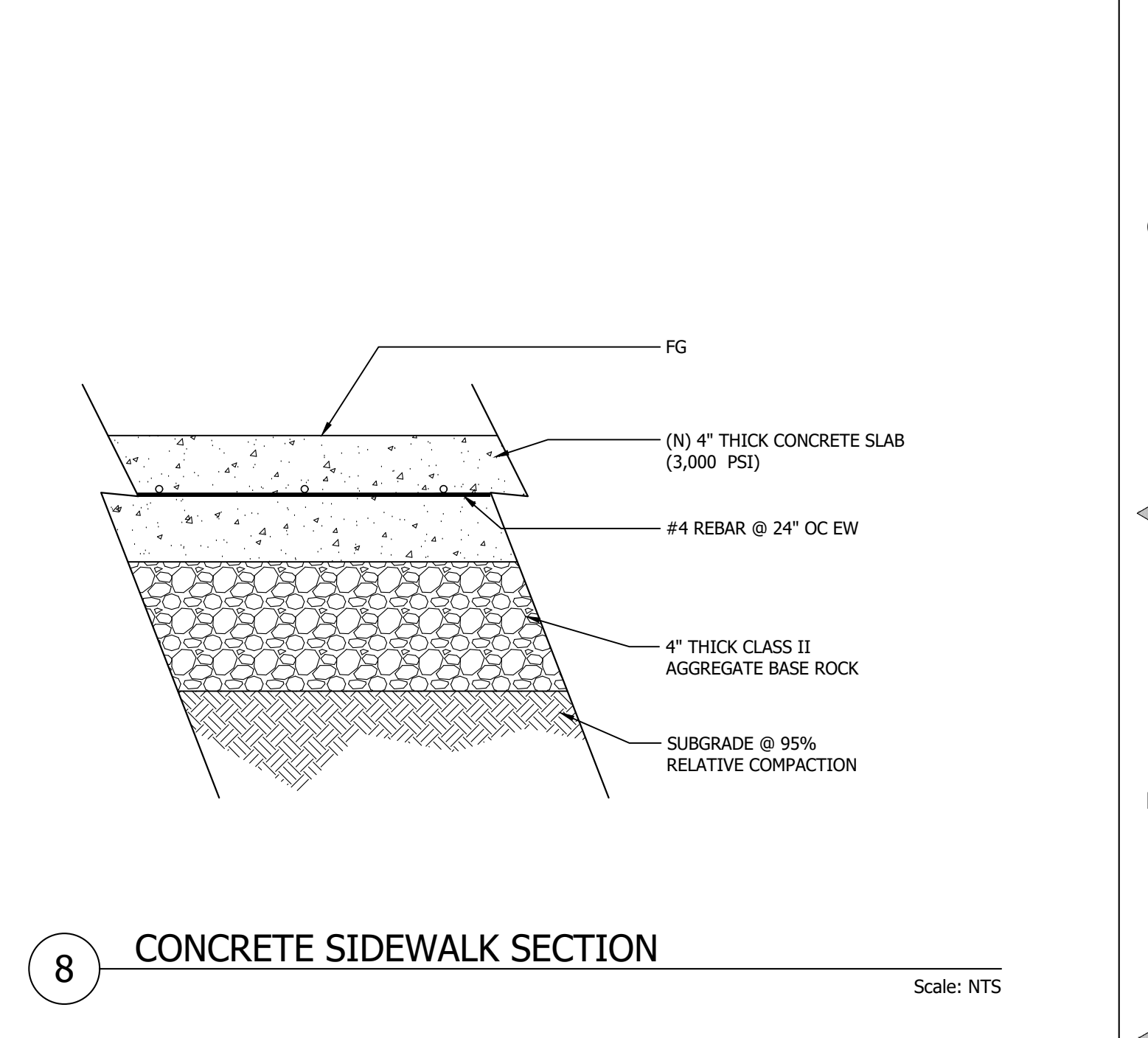
**5 STORMWATER RELEASE STRUCTURE** Scale: NTS



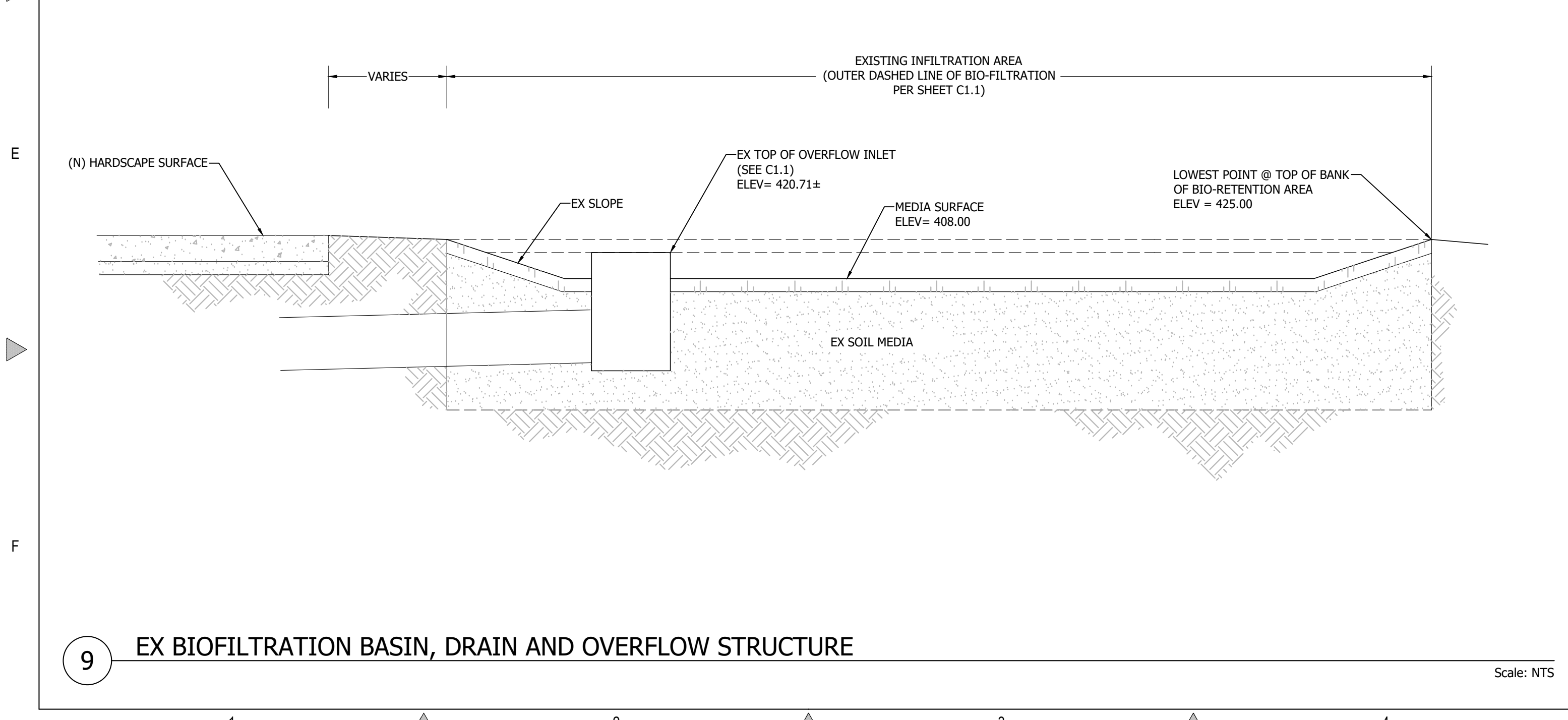
**6 MC-4500 STORMTECH CHAMBER SECTION** Scale: NTS



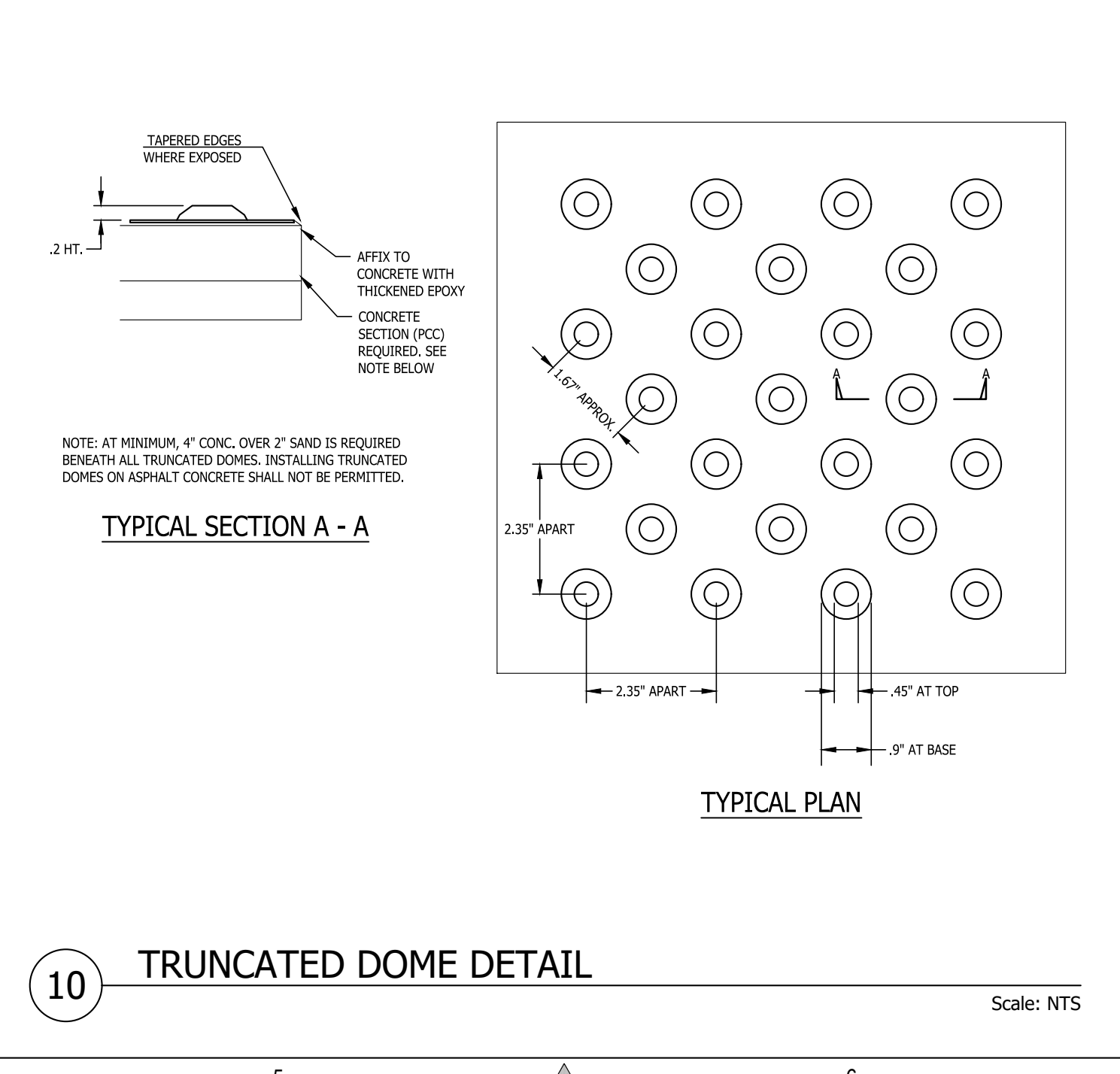
**7 FIRE ACCESS TURNAROUND DETAIL** Scale: 1:20



**8 CONCRETE SIDEWALK SECTION** Scale: NTS



**9 EX BIOFILTRATION BASIN, DRAIN AND OVERFLOW STRUCTURE** Scale: NTS



**10 TRUNCATED DOME DETAIL** Scale: NTS

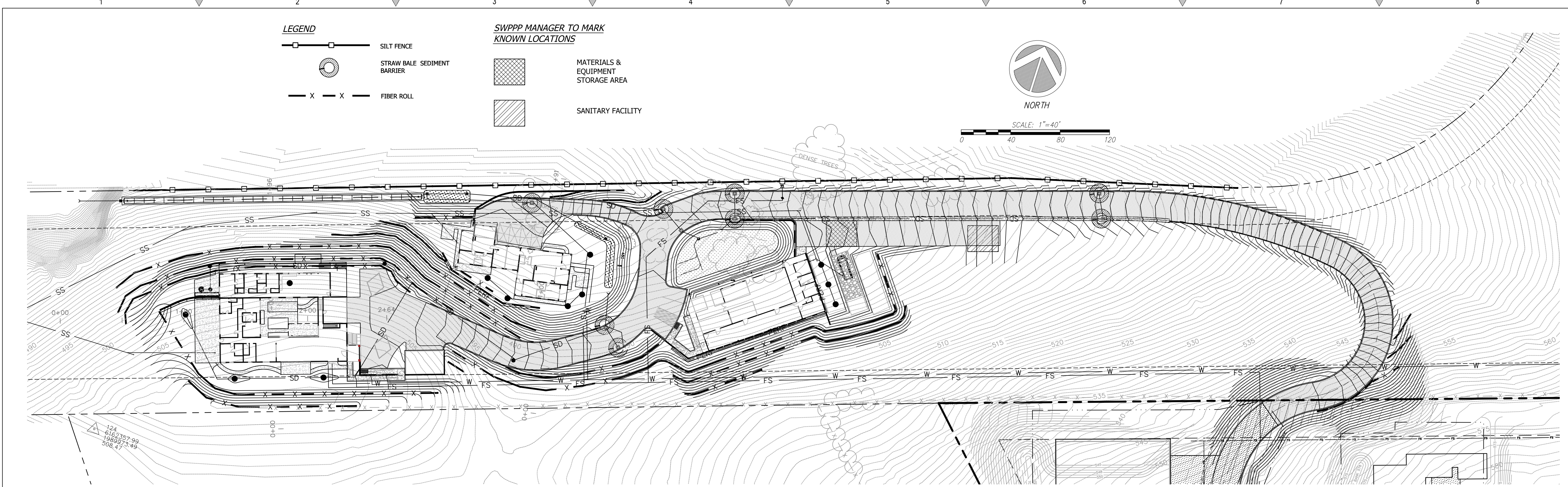
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

**DETAILS**

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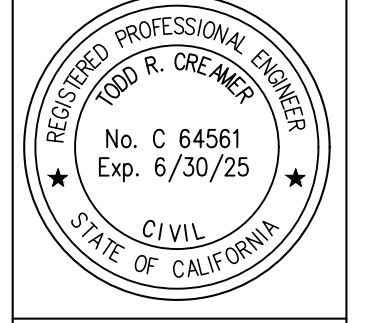
**BARSANA RESIDENCE**  
**AUGUSTE COURT**  
**APN: 029-35-007**

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Drawn:	DD
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Of	37 Sheets



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# EROSION CONTROL



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## BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007

Date: 09/27/23  
 Scale: 1" = 40'  
 Drawn: DD  
 Job: 3007.02  
 Sheet: C5.1  
 of 37 Sheets

### LEGEND

- SILT FENCE
- STRAW BALE SEDIMENT BARRIER
- FIBER ROLL
- MATERIALS & EQUIPMENT STORAGE AREA
- SANITARY FACILITY

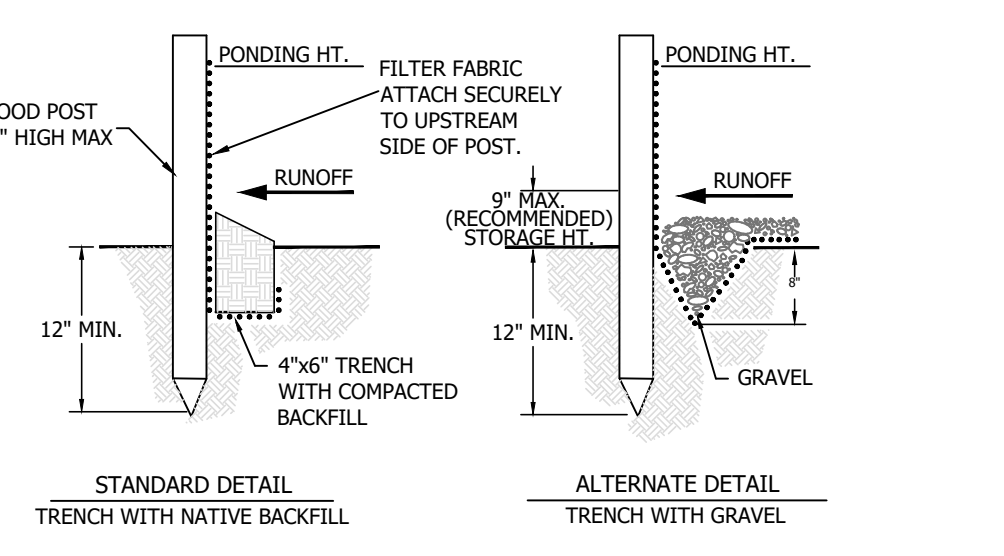
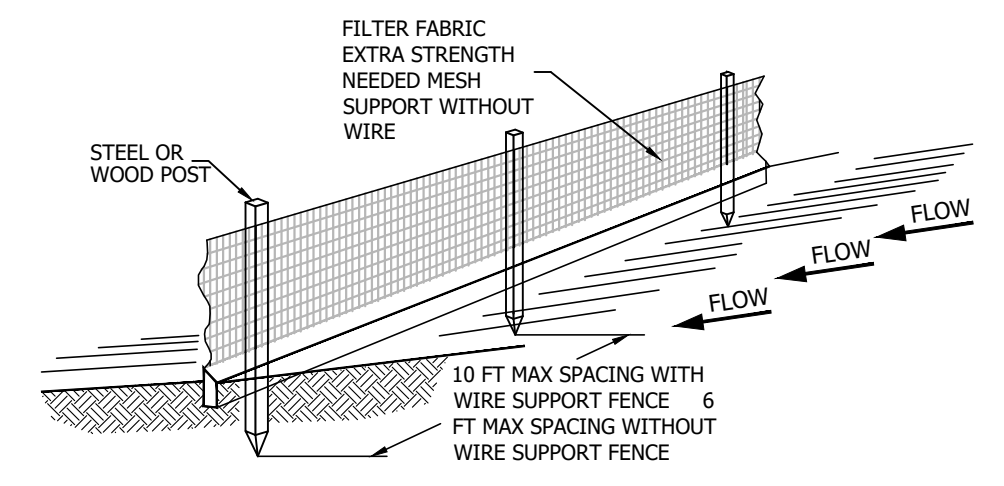
### SWPPP MANAGER TO MARK KNOWN LOCATIONS

- MATERIALS & EQUIPMENT STORAGE AREA
- SANITARY FACILITY



SCALE: 1"=40'  
 0 40 80 120

- NOTE:**
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
  - REMOVED SEDIMENT SHALL BE DEPOSITED AT AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
  - SILT FENCE SHALL BE REPLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



1 SILT FENCE

### CONSTRUCTION SPECIFICATIONS

THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. STORAGE HEIGHT SHALL NEVER EXCEED 18". THE FENCE LINE SHALL FOLLOW THE CONTOUR AS CLOSELY AS POSSIBLE.

IF POSSIBLE, THE FILTER FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET. TURN THE ENDS OF THE FENCE UP HILL.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.

WHEN STANDARD-STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, THE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

THE STANDARD-STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 6 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE TOE OF THE FILTER FABRIC.

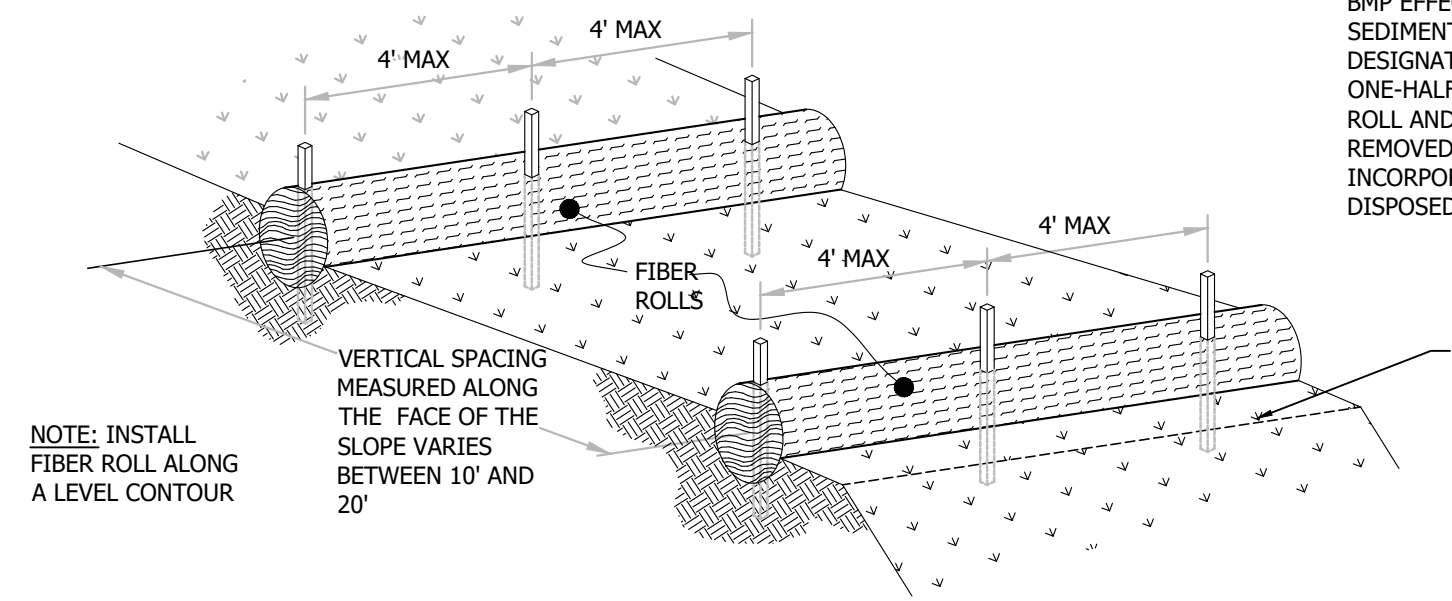
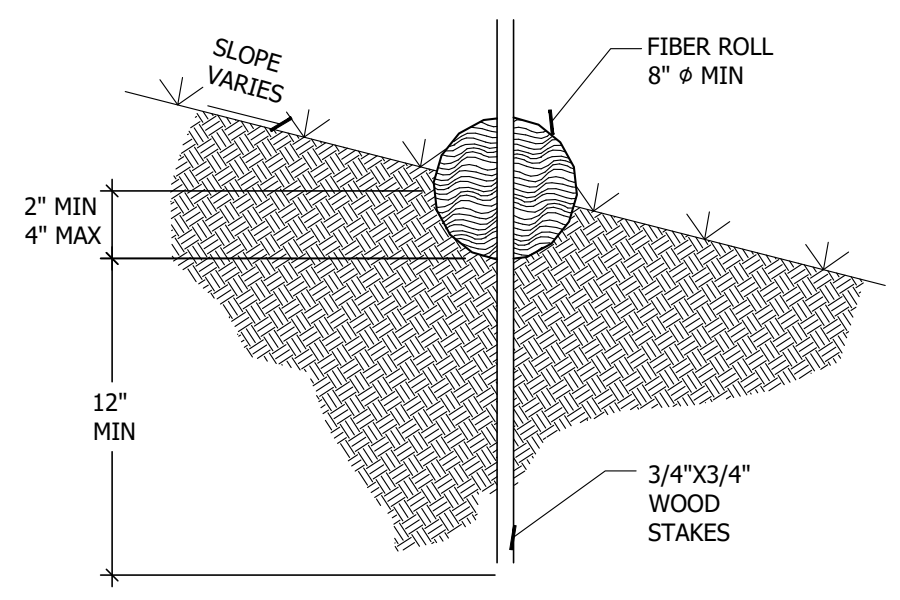
SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.

SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED, AND ANY SEDIMENT STORED BEHIND THE SILT FENCE HAS BEEN REMOVED.

**INSPECTION AND MAINTENANCE**

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT STORM (1" IN 24 HR.). ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/3 HEIGHT OF THE FENCE OR 9 INCHES MAXIMUM.

THE REMOVED SEDIMENT SHALL VEGETATE OR OTHERWISE STABILIZED.



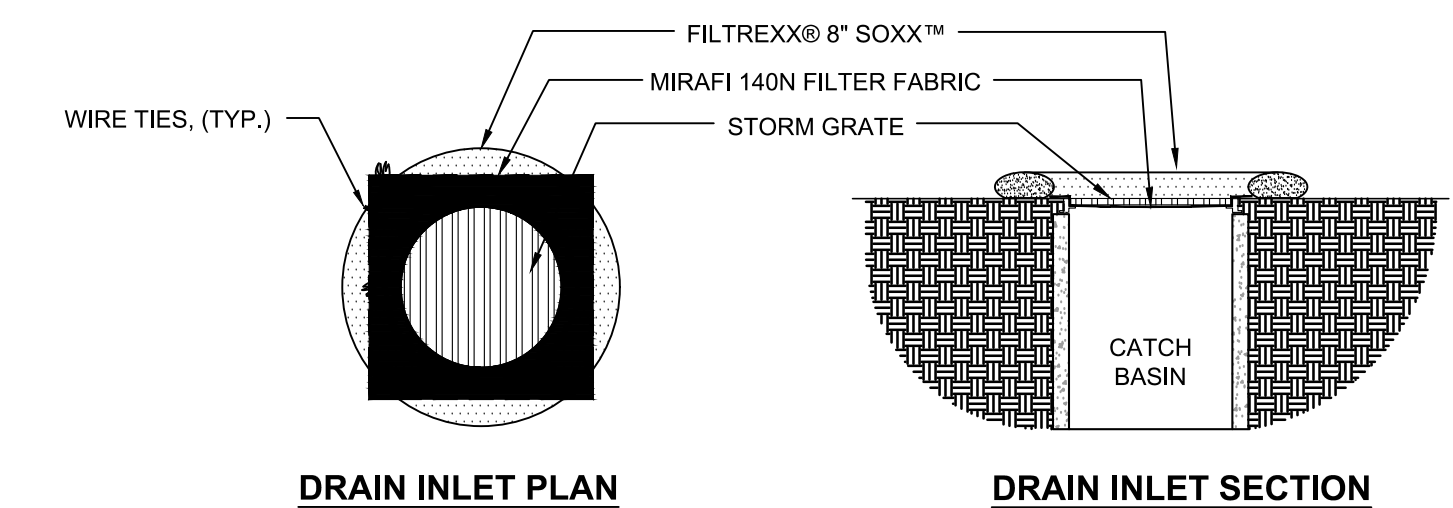
2 FIBER ROLLS

### CONSTRUCTION SPECIFICATIONS

LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:

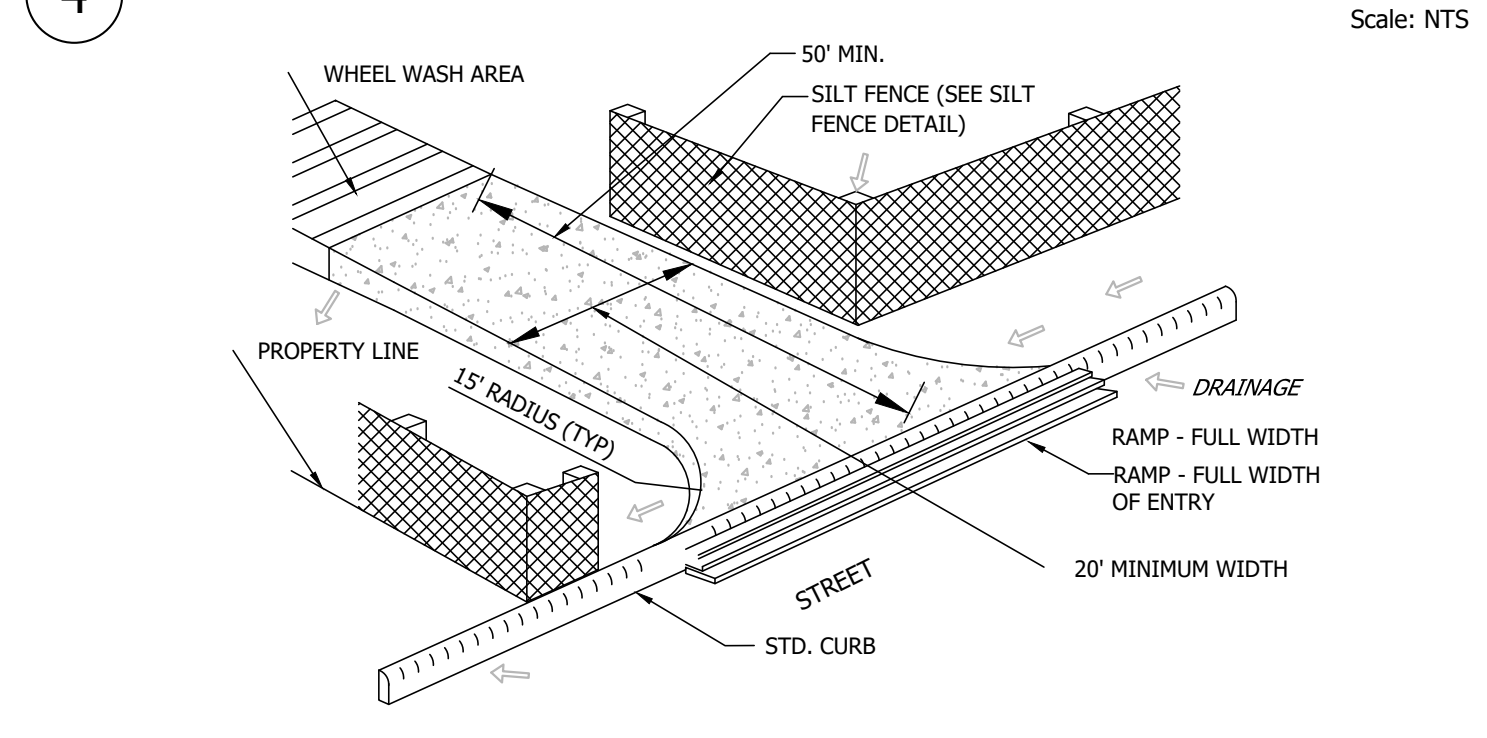
- SLOPE INCLINATION OF 4:1 (H:V) OR FLATTER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 20 FT.
- SLOPE INCLINATION BETWEEN 4:1 AND 2:1 (H:V) FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 15 FT. (A CLOSER SPACING IS MORE EFFECTIVE).
- SLOPE INCLINATION OF 2:1 (H:V) OR GREATER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10 FT. (A CLOSER SPACING IS MORE EFFECTIVE).
- TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL. STAKE FIBER ROLLS INTO A 2 TO 4 IN. DEEP TRENCH WITH A WIDTH EQUAL TO THE DIAMETER OF THE FIBER ROLL.
- DRIVE STAKES AT THE END OF EACH FIBER ROLL AND SPACED 4 FT MAXIMUM ON CENTER.
- USE WOOD STAKES WITH A NOMINAL CLASSIFICATION OF 0.75 BY 0.75 IN. AND A MINIMUM LENGTH OF 24 IN.
- IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHOULD BE OVERLAPPED, NOT ABUTTED. REPAIR OR REPLACE SPLIT, TORN, UNRAVELING OR SLUMPING FIBER ROLLS.

IF THE FIBER ROLL IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET FLOWS, SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED SEDIMENT STORAGE DEPTH, USUALLY ONE-HALF THE DISTANCE BETWEEN THE TOP OF THE FIBER ROLL AND THE ADJACENT GROUND SURFACE. SEDIMENT REMOVED DURING THE MAINTENANCE MAY BE INCORPORATED INTO EARTHWORK ON THE SITE OR DISPOSED AT AN APPROPRIATE LOCATION.



- NOTES:**
- ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
  - FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
  - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.
  - CONTRACTOR SHALL EXTEND MIRAFI 140N FABRIC 6" BEYOND CATCH BASIN AFTER PLACEMENT OF GRATE
  - CONTRACTOR SHALL REMOVE ALL FILTER FABRIC FROM ALL STORM DRAIN INLETS UPON COMPLETION OF PROJECT

### 4 FILTREX® INLET PROTECTION

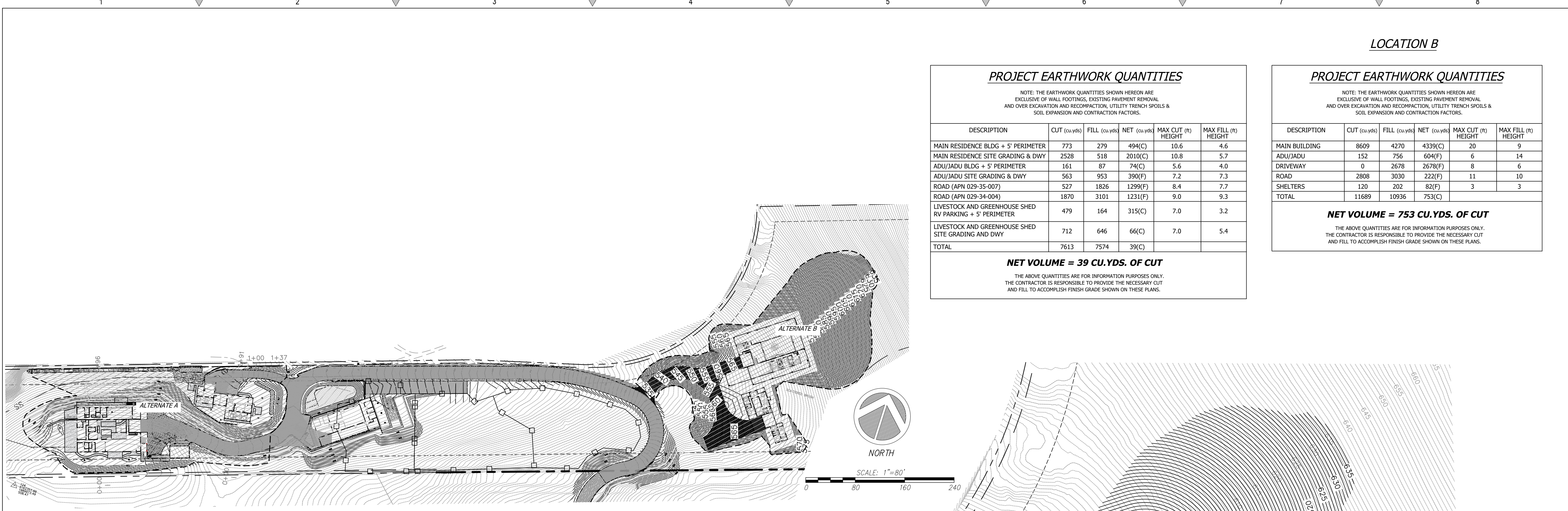


3 ROCKED CONSTRUCTION ENTRANCE

Scale: NTS

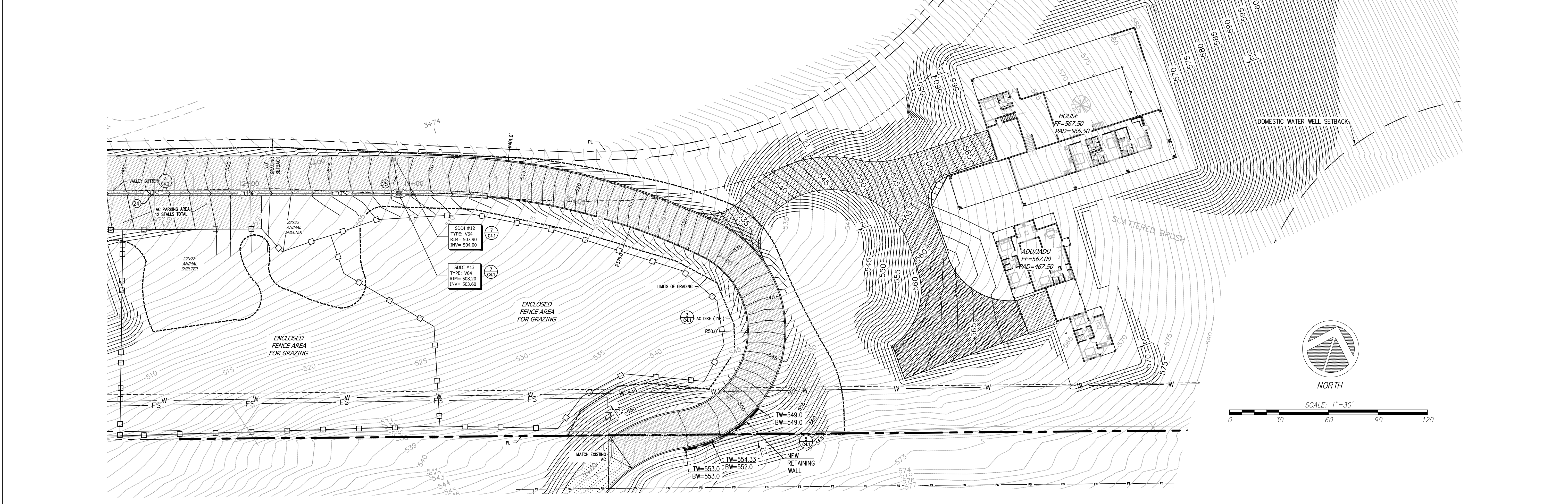
Scale: NTS

Scale: NTS



1 OVERALL SITE PLAN

Scale: 1:80



2 ALTERNATE SITE PLAN

Scale: 1:30

**PROJECT EARTHWORK QUANTITIES**

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECONSTRUCTION, UTILITY TRENCH SPILLS & SOIL EXPANSION AND CONTRACTION FACTORS.

DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
MAIN RESIDENCE BLDG + 5' PERIMETER	773	279	494(C)	10.6	4.6
MAIN RESIDENCE SITE GRADING & DWY	2528	518	2010(C)	10.8	5.7
ADU/JADU BLDG + 5' PERIMETER	161	87	74(C)	5.6	4.0
ADU/JADU SITE GRADING & DWY	563	953	390(F)	7.2	7.3
ROAD (APN 029-35-007)	527	1826	1299(F)	8.4	7.7
ROAD (APN 029-34-004)	1870	3101	1231(F)	9.0	9.3
LIVESTOCK AND GREENHOUSE SHED RV PARKING + 5' PERIMETER	479	164	315(C)	7.0	3.2
LIVESTOCK AND GREENHOUSE SHED SITE GRADING AND DWY	712	646	66(C)	7.0	5.4
<b>TOTAL</b>	<b>7613</b>	<b>7574</b>	<b>39(C)</b>		

**NET VOLUME = 39 CU.YDS. OF CUT**

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

**LOCATION B**

**PROJECT EARTHWORK QUANTITIES**

NOTE: THE EARTHWORK QUANTITIES SHOWN HEREON ARE EXCLUSIVE OF WALL FOOTINGS, EXISTING PAVEMENT REMOVAL AND OVER EXCAVATION AND RECONSTRUCTION, UTILITY TRENCH SPILLS & SOIL EXPANSION AND CONTRACTION FACTORS.

DESCRIPTION	CUT (cu.yds)	FILL (cu.yds)	NET (cu.yds)	MAX CUT (ft) HEIGHT	MAX FILL (ft) HEIGHT
MAIN BUILDING	8609	4270	4339(C)	20	9
ADU/JADU	152	756	604(F)	6	14
DRIVEWAY	0	2678	2678(F)	8	6
ROAD	2808	3030	222(F)	11	10
SHELTERS	120	202	82(F)	3	3
<b>TOTAL</b>	<b>11689</b>	<b>10936</b>	<b>753(C)</b>		

**NET VOLUME = 753 CU.YDS. OF CUT**

THE ABOVE QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE NECESSARY CUT AND FILL TO ACCOMPLISH FINISH GRADE SHOWN ON THESE PLANS.

REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

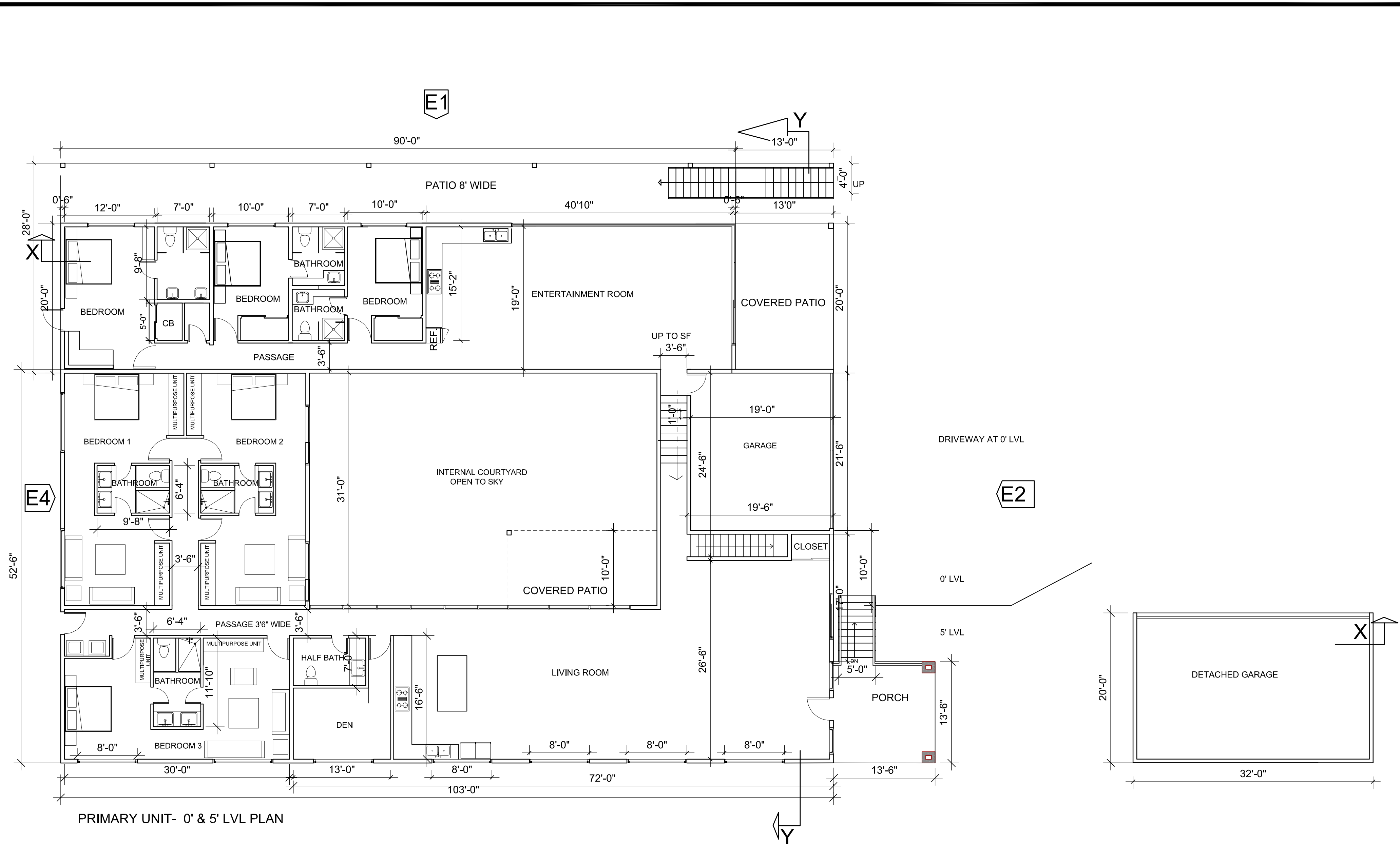
**ALTERNATE SITE PLAN**



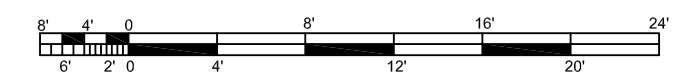
**C2G CIVIL CONSULTANTS GROUP, INC.**  
 Engineers/Planners  
 4400 Scotts Valley Road, Suite 6  
 Scotts Valley, CA 95066  
 T (831) 438-4420 F (831) 438-4420

**BARSANA RESIDENCE**  
 AUGUSTE COURT  
 APN: 029-35-007

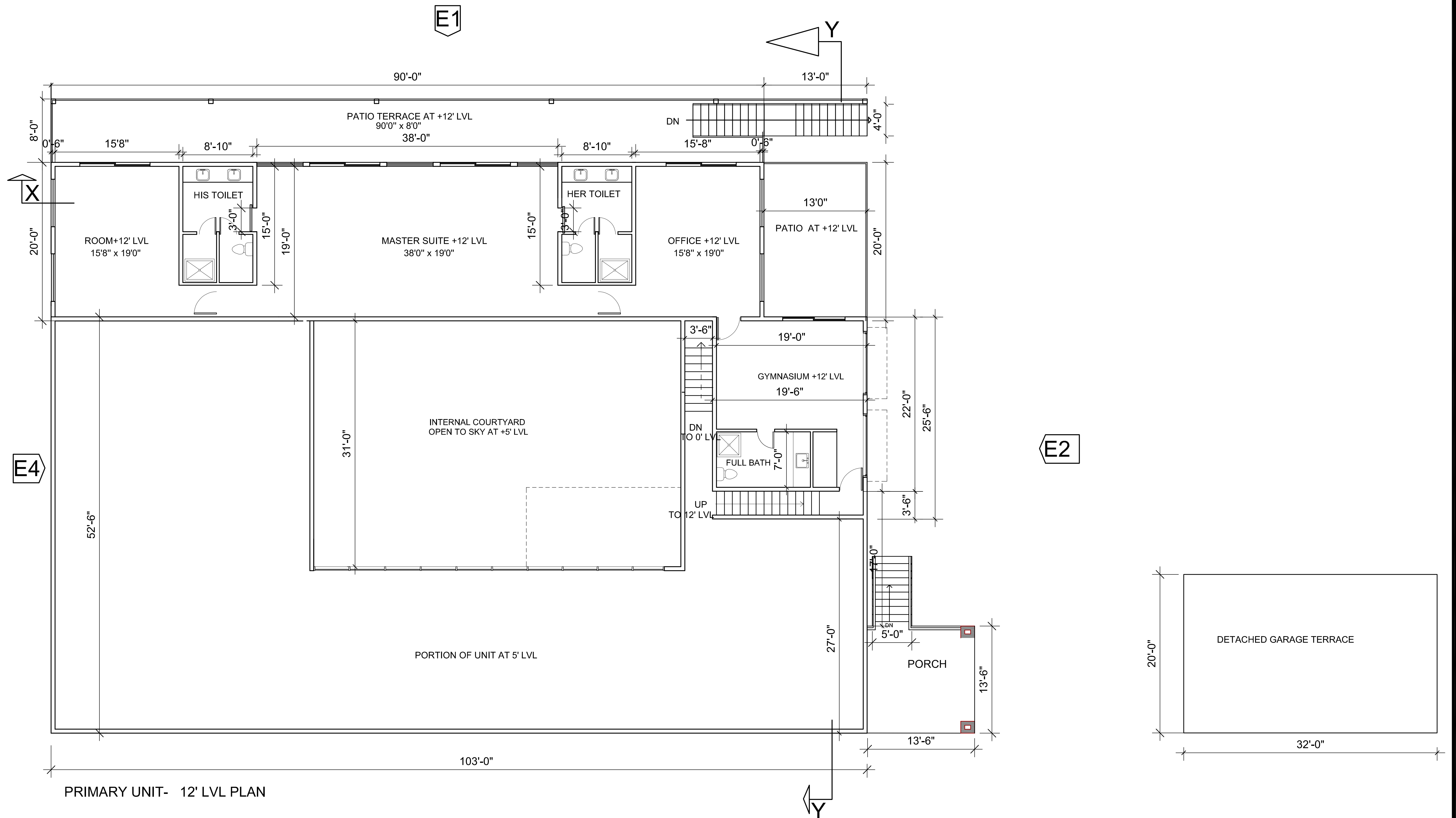
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 Scale: AS SHOWN  
 Drawn: DD  
 Job: 3007.02  
 Sheet: **C6.1**  
 of 37 Sheets



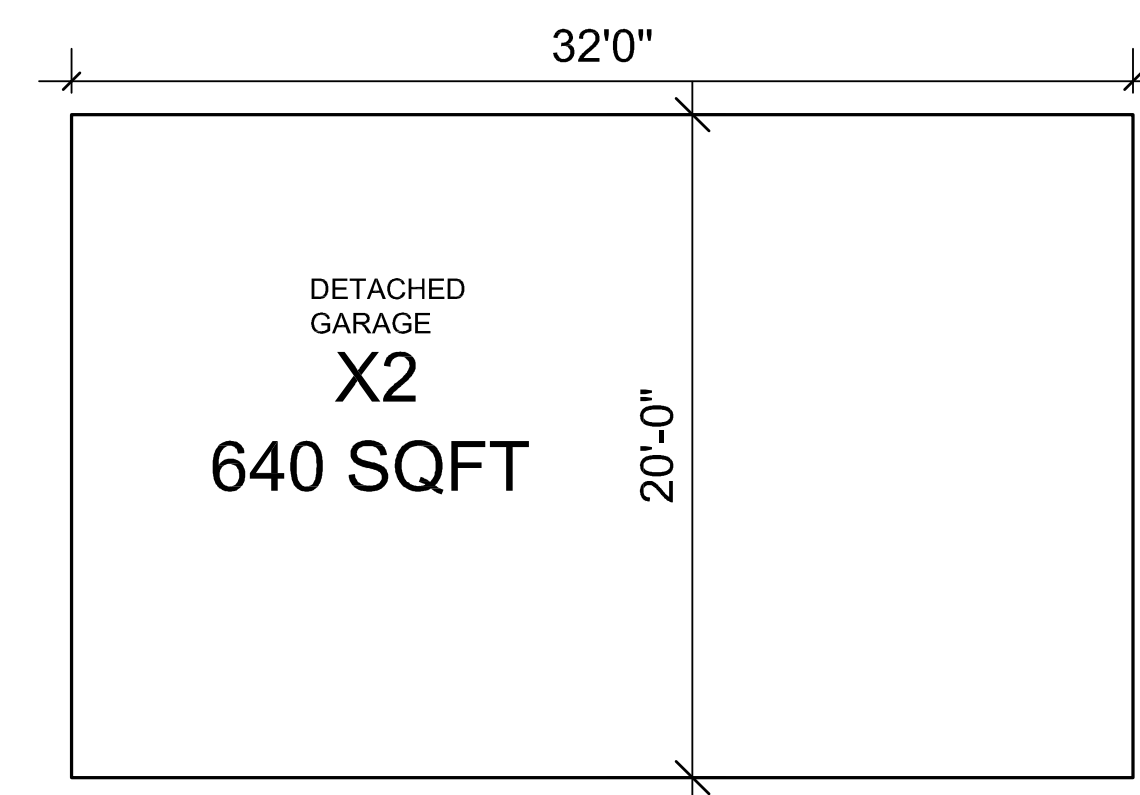
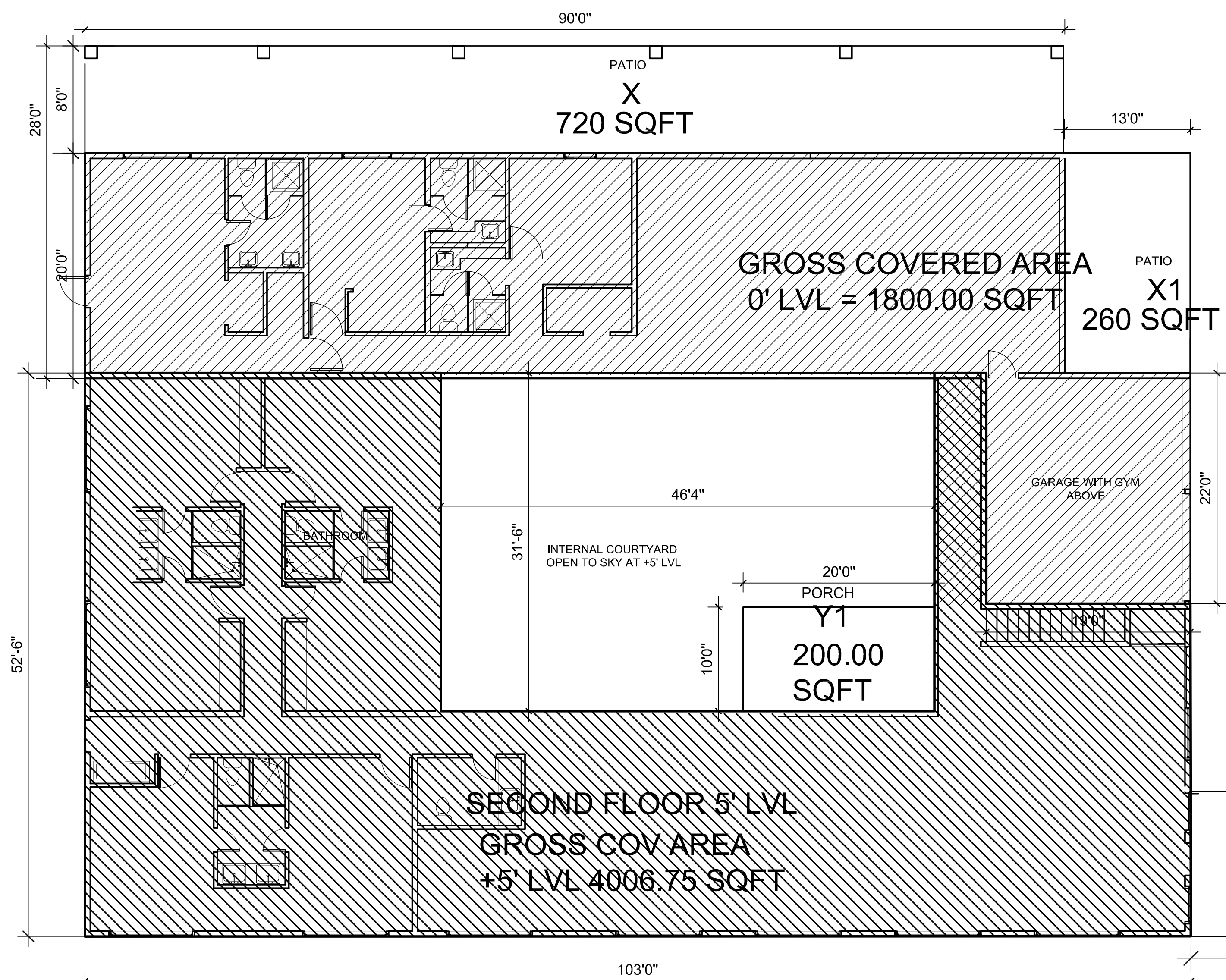
PRIMARY UNIT- 0' & 5' LVL PLAN



<p>BARSANA 1 AUGUSTE CT, MILPITAS, CA 95035</p>	<p>AJAY GOYAL 748 BLUE STONE CIRCLE, FOLSOM CA 95630   916-294 - 5337</p>	<p>DRAWN BY: NEHA</p>	<p>DATE: 11-17-2023 SCALE: 1:100</p>	<p>LOCATION: APN 029-35-007</p>	<p>SUBJECT: <b>PRIMARY RESIDENCE</b> 0' AND 5' LVL PLAN</p>	<p>DRAWING NO. : P01</p>
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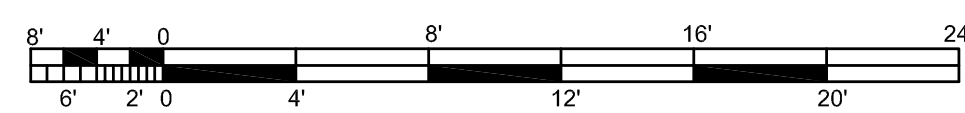
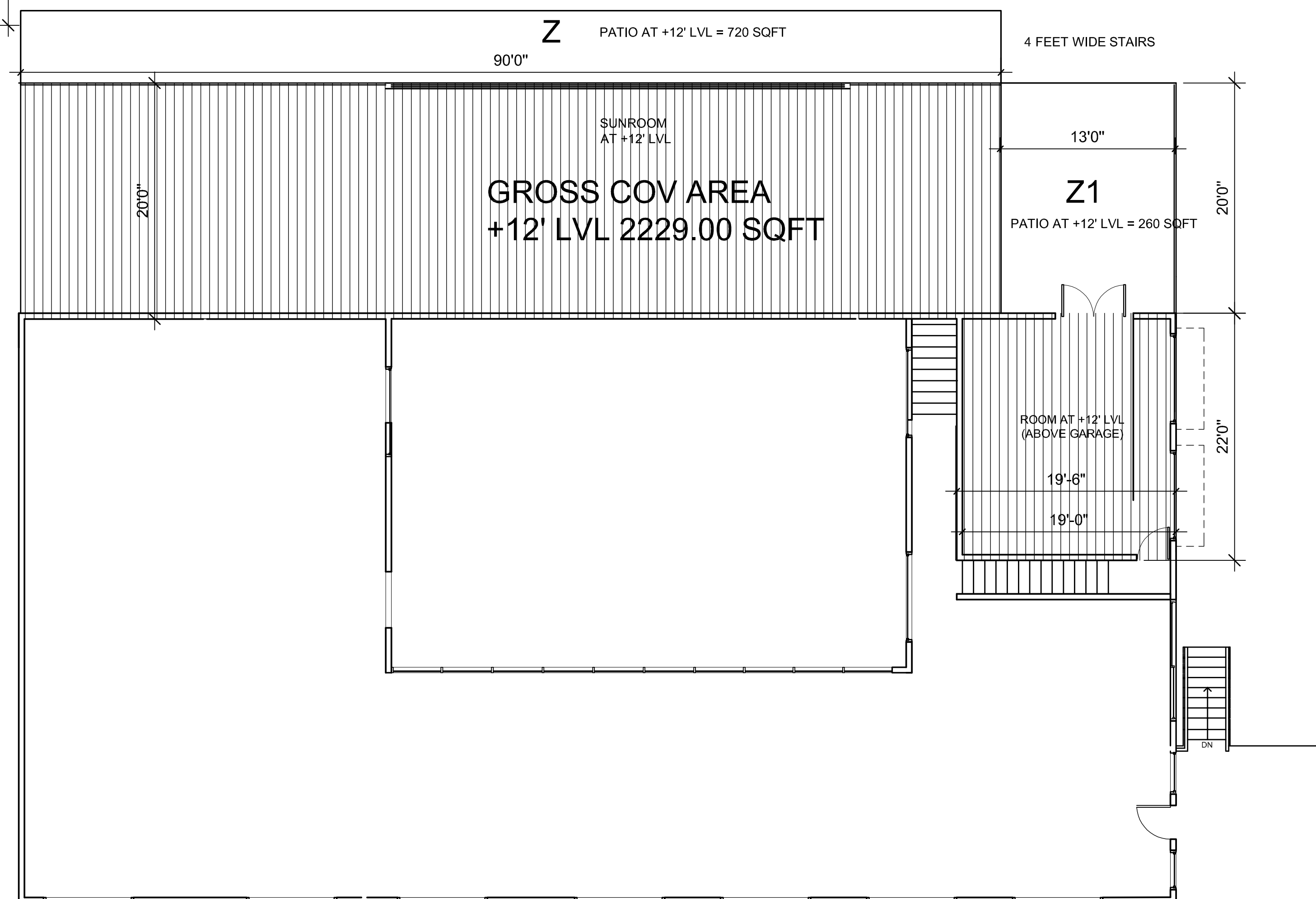


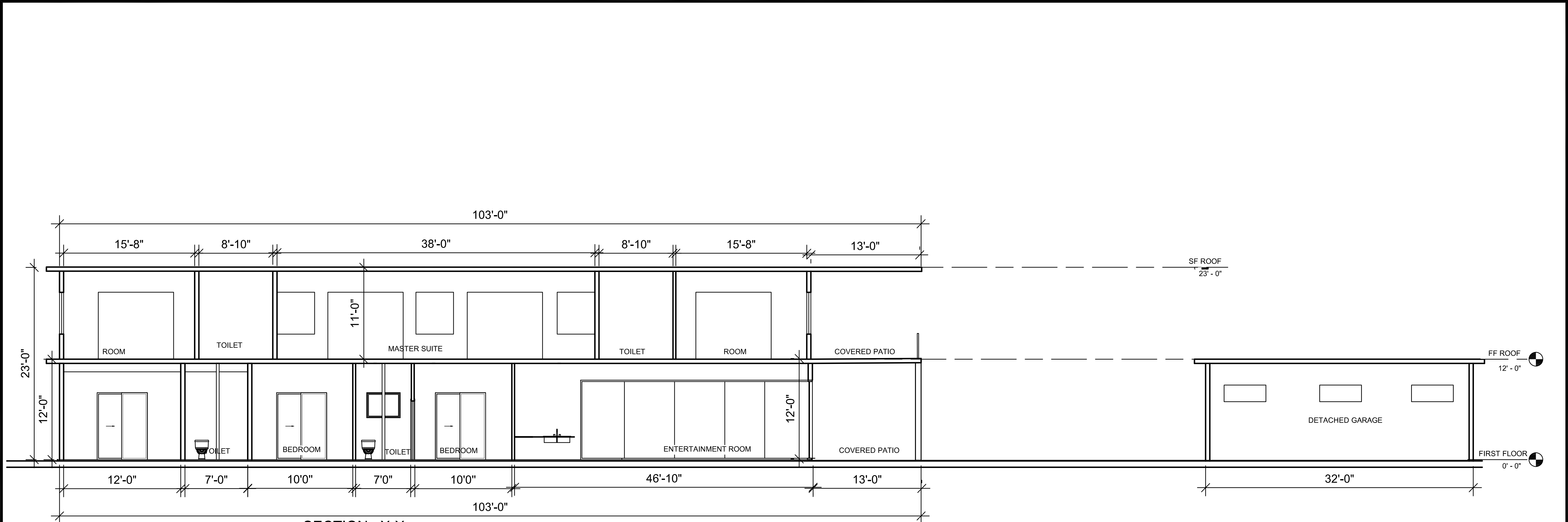


**PRIMARY RESIDENCE- AREA ANALYSIS OF 12' LVL PLAN**

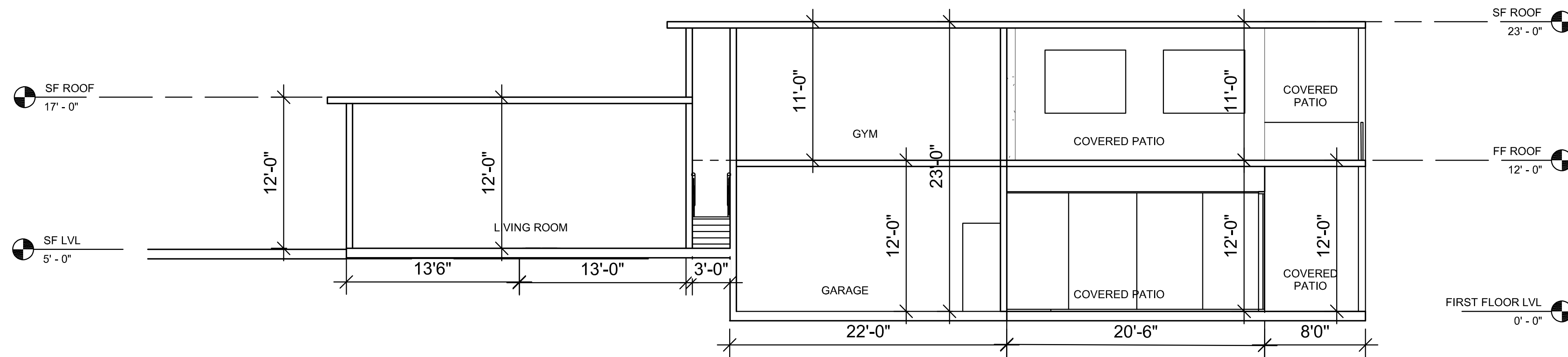
GROSS AREA OF +12' LVL PLAN =1409.25 SQFT  
 COVERED AREA OF PATIO Z = 720 SQFT  
 COVERED AREA OF PATIO Z1= 260 SQFT

LVL	AREA TABULATION BUILDING PORTION	GROSS AREA
0'	ENTERTAINMENT RM,BED ROOM,KITCHEN,GARAGE	2218.00 SQFT
5'	LIVING RM,BED ROOMS,TOILET,STAIRS	3530.00 SQFT
12'	MASTER SUITE, GYMNASIUM	2229.00 SQFT
		7974.00 SQFT

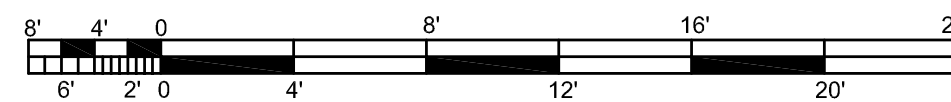




SECTION : X-X



SECTION : Y-Y



BARSANA  
1 AUGUSTE CT, MILPITAS, CA 95035

AJAY GOYAL  
748 BLUE STONE CIRCLE, FOLSOM CA 95630 | 916-294 - 5337

DRAWN BY :  
NEHA

DATE: 11-17-2023  
SCALE: 1:64 (3/16"=1'0")

LOCATION:  
APN 029-35-007

SUBJECT:  
**PRIMARY RESIDENCE**  
SECTIONS

DRAWING NO. :  
P04



ELEVATION E1



ELEVATION E2



ELEVATION E3



ELEVATION E4

COLOR AND MATERIAL PALETTE				
WALL CLADDING	METAL ROOFING, GUTTER, EAVES	ENTRANCE WALL	GARAGE DOOR	DOOR, WINDOW, FRAME, TRIMS
PALM DESERT TAN (LRV43.07)	WOLF GREY (LRV 19.89)	MSI ALASKA GREY (LRV 44.42)	WOOD FINISH (LRV 35.71)	WHITE (LRV 96.2)

BARSANA  
1 AUGUSTE CT, MILPITAS, CA 95035

AJAY GOYAL  
748 BLUE STONE CIRCLE, FOLSOM CA 95630 | 916-294 - 5337

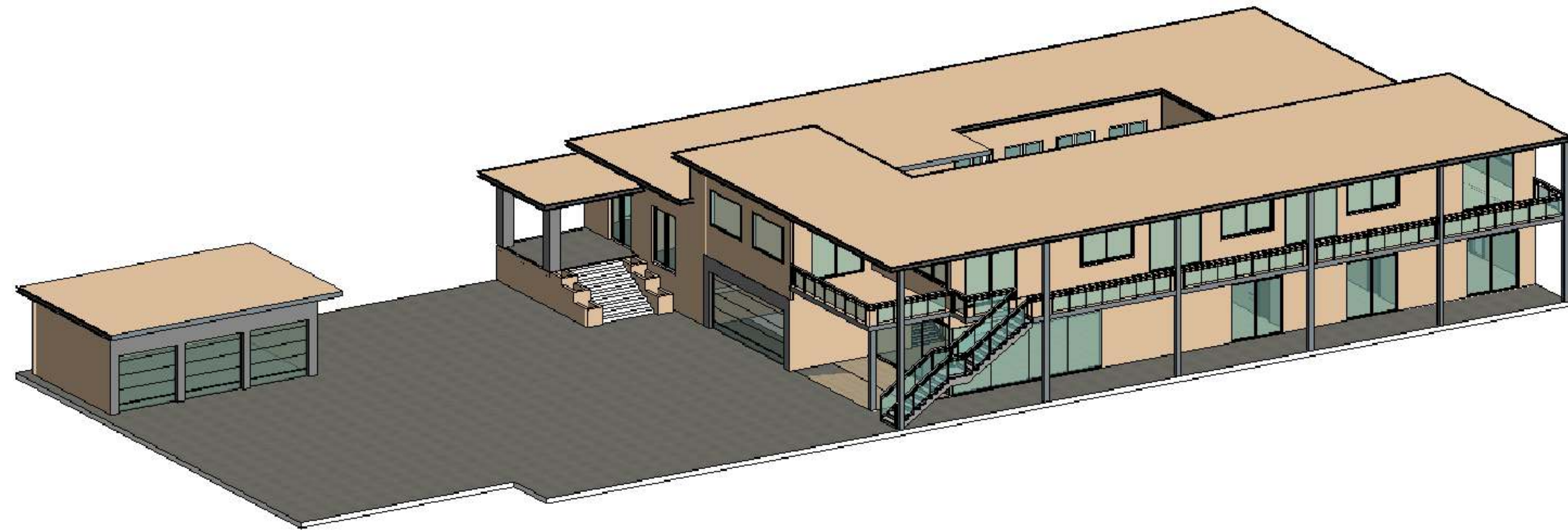
DRAWN BY :  
NEHA

DATE: 11-17-2023  
SCALE: 1:100

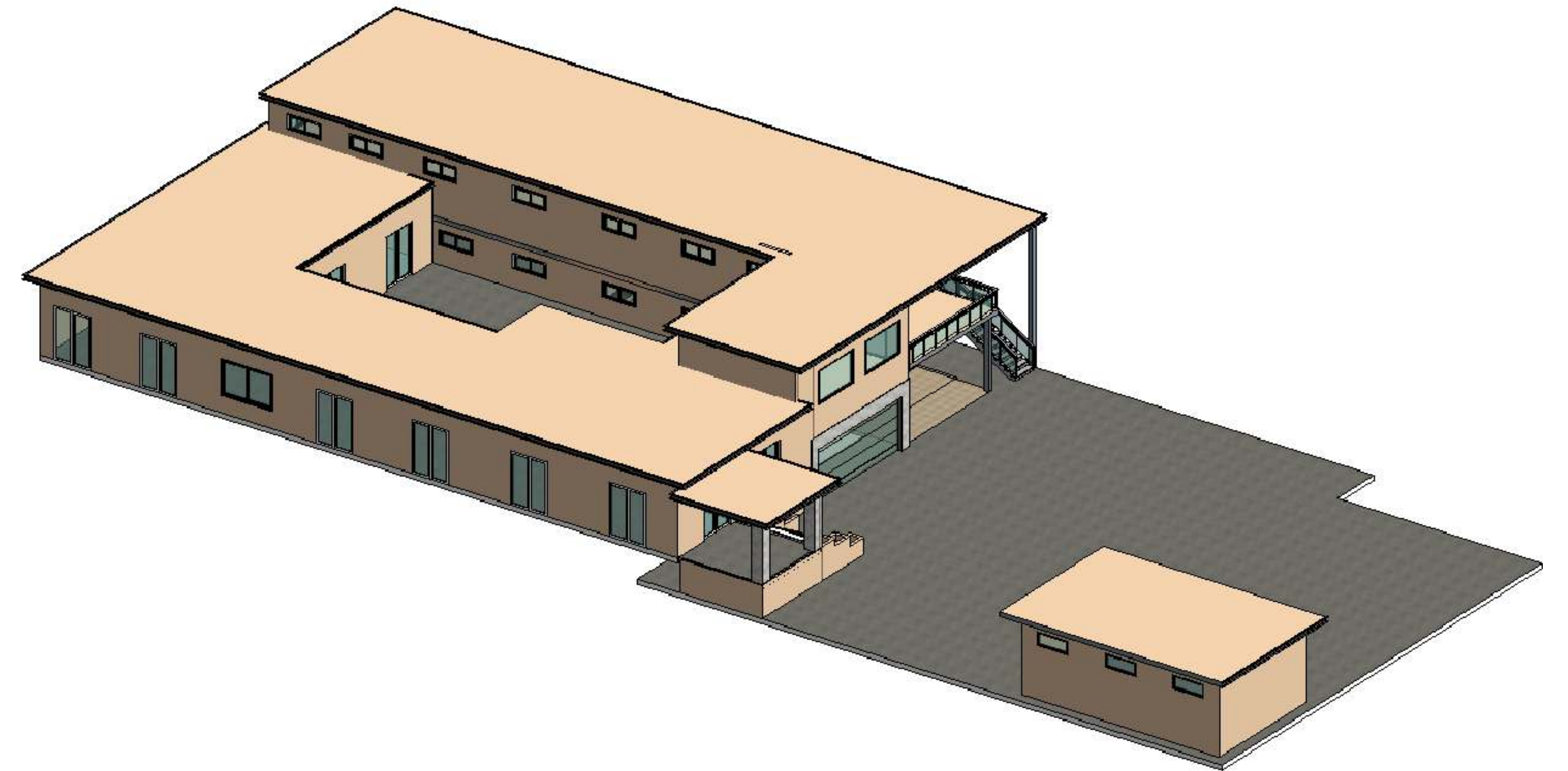
LOCATION:  
APN 029-35-007

SUBJECT:  
**PRIMARY RESIDENCE**  
VIEWS

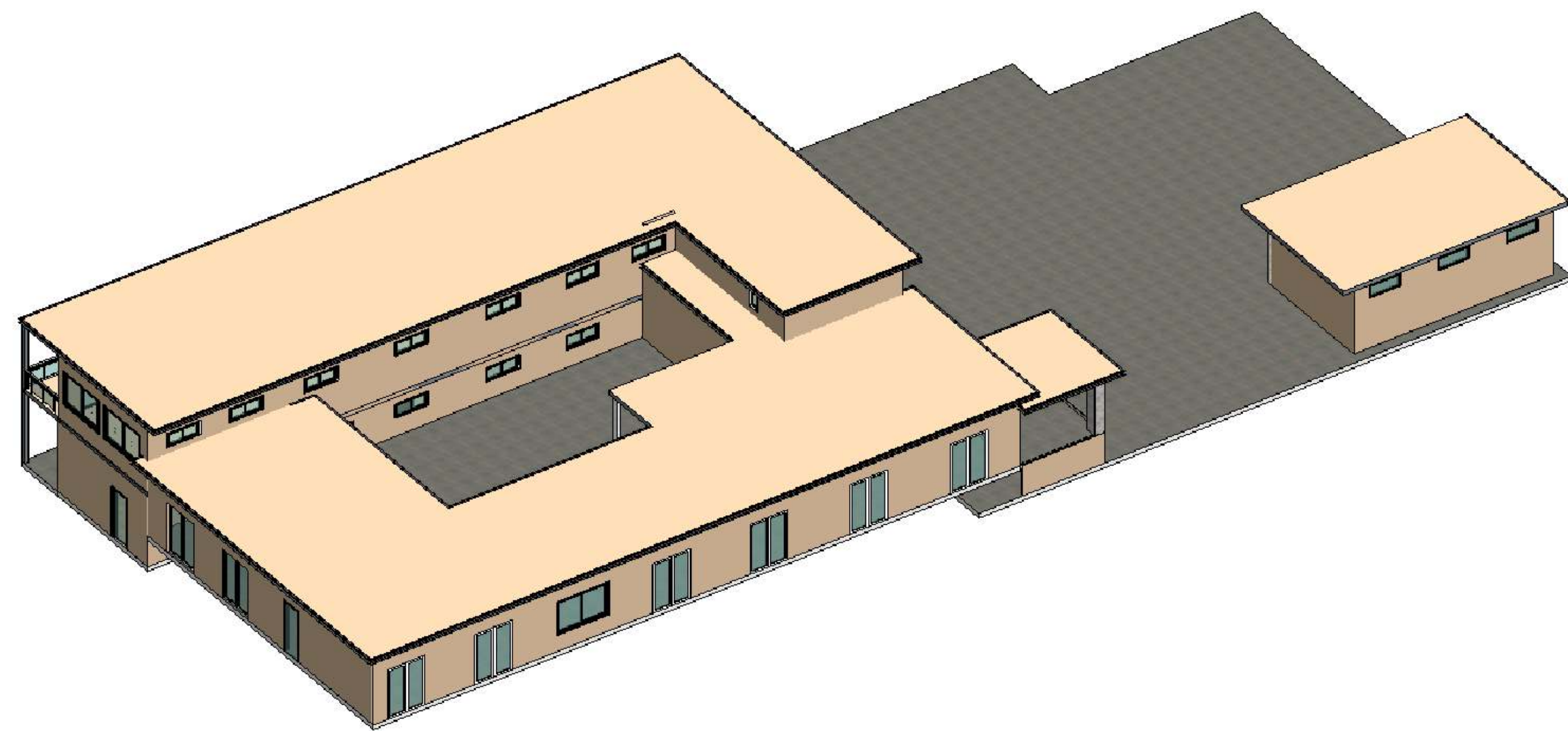
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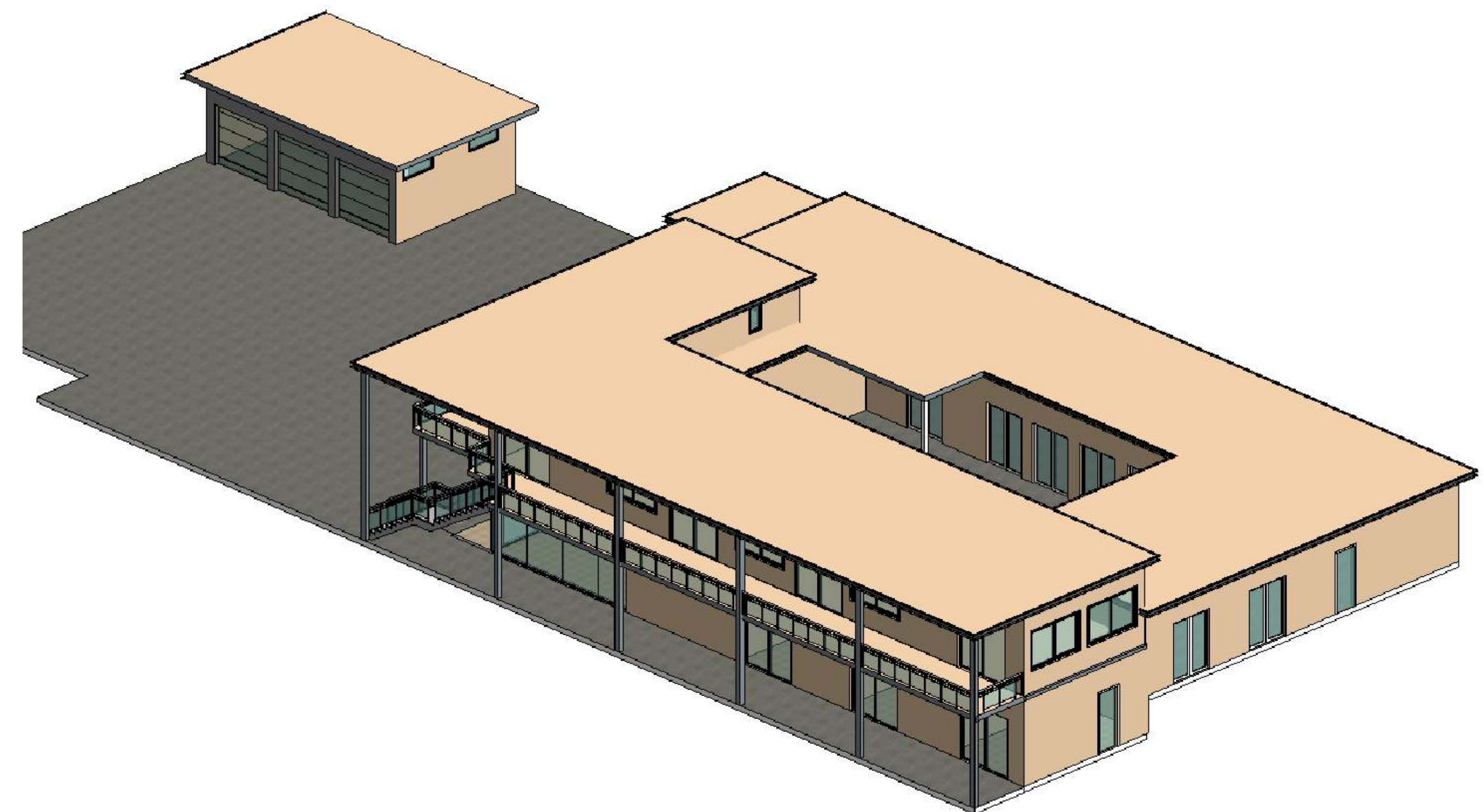
VIEW 1



VIEW 2



VIEW 3



VIEW 4

A6

A7

BARSANA  
1 AUGUSTE CT, MILPITAS, CA 95035

AJAY GOYAL  
748 BLUE STONE CIRCLE, FOLSOM CA 95630 | 916-294 - 5337

DRAWN BY :  
NEHA

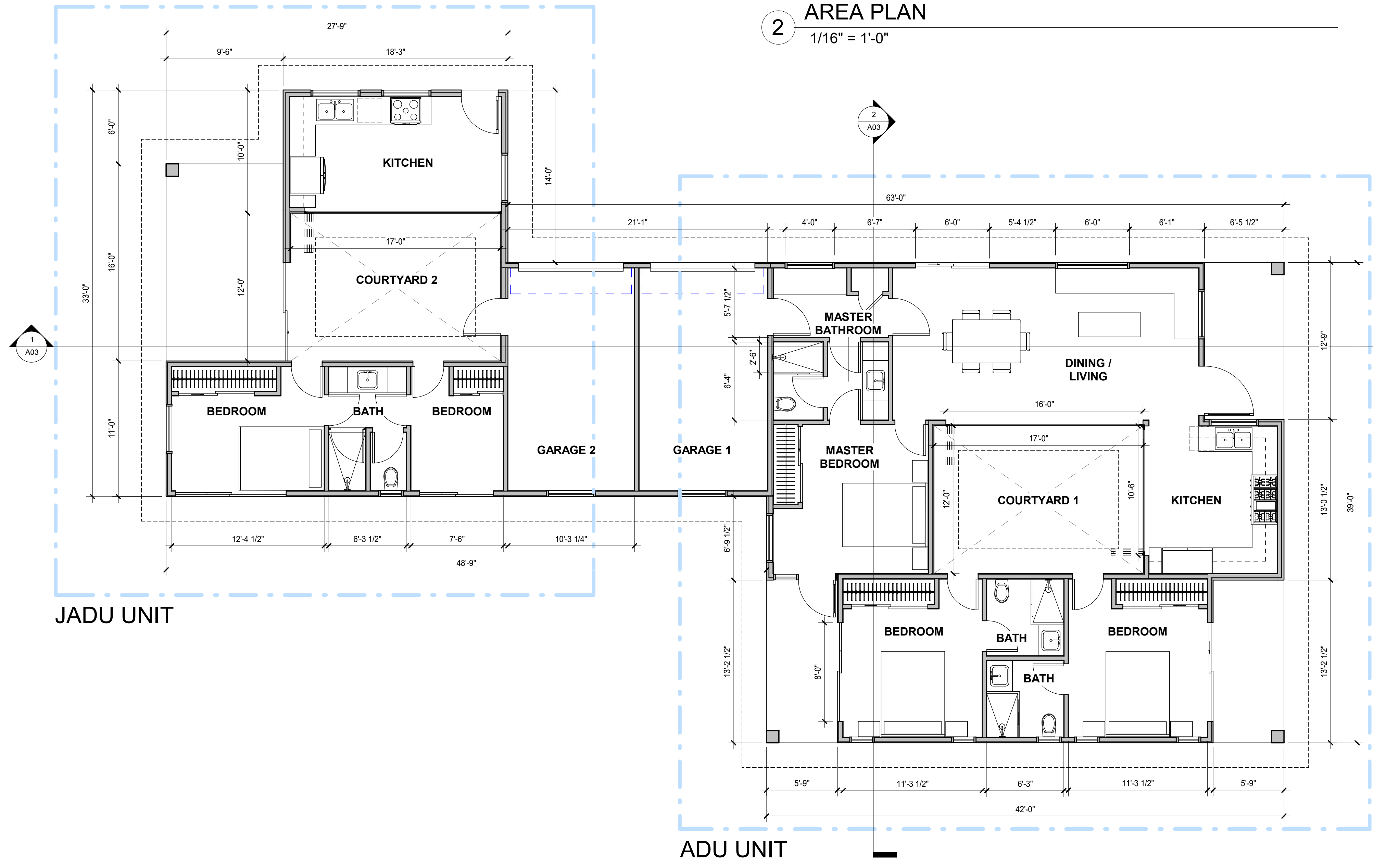
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SCALE: 1:100

LOCATION:  
APN 029-35-007

SUBJECT:  
**PRIMARY RESIDENCE**  
VIEWS

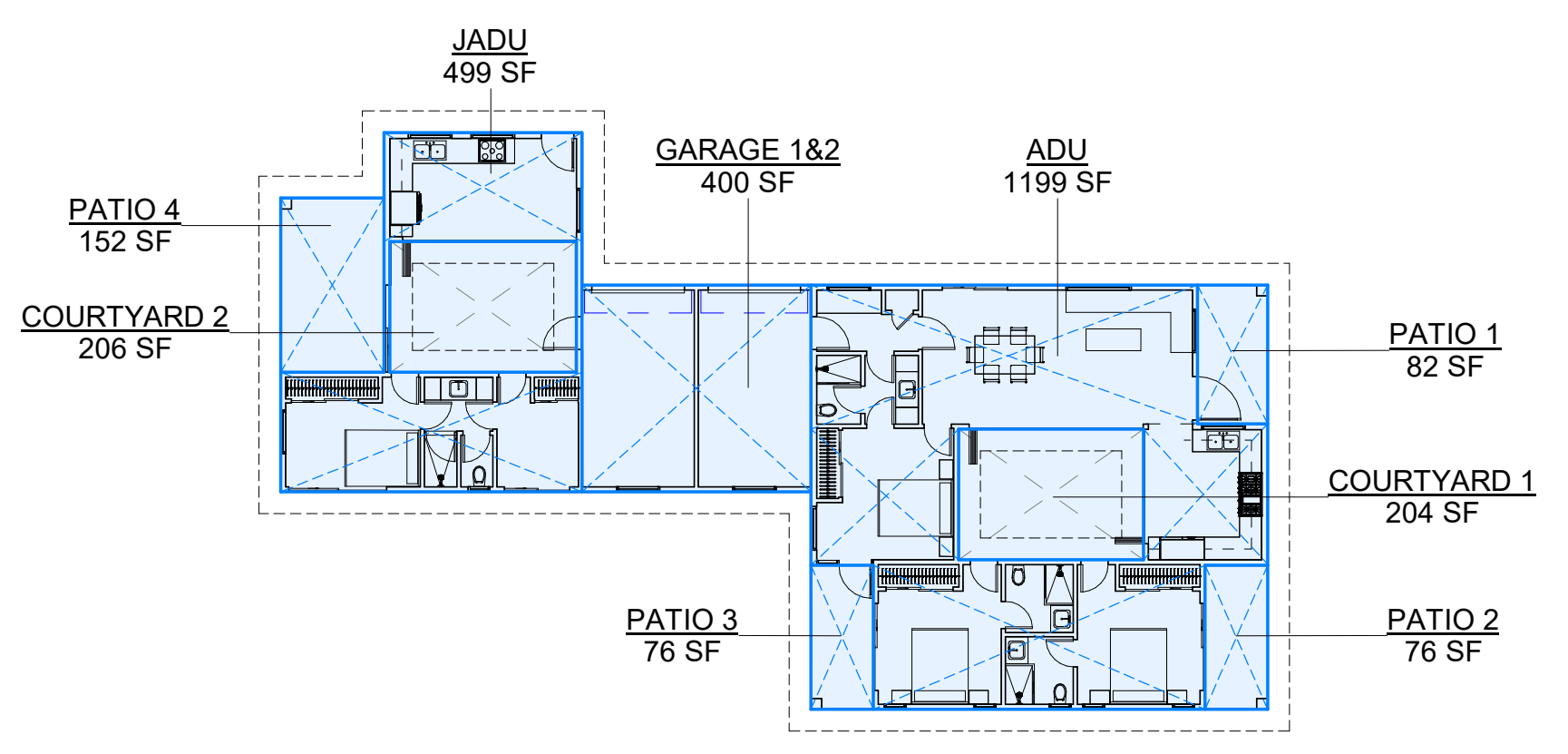
DRAWING NO. :  
P06

P1



**1 FLOOR PLAN**  
3/16" = 1'-0"

**2 AREA PLAN**  
1/16" = 1'-0"



GROSS FLOOR AREA SUMMARY	
ADU:	1,199 SF
JADU:	499 SF
TOTAL:	1,698 SF

COVERED & PARTIALLY ENCLOSED AREA SUMMARY	
ADU PATIO 1:	82 SF
ADU PATIO 2:	76 SF
ADU PATIO 3:	76 SF
ADU TOTAL:	234 SF
JADU PATIO 4:	152 SF
GRAND TOTAL:	386 SF

GARAGE AREA	
GARAGE 1&2:	400 SF

**MATERIALS**

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

- STANDING SEAM ROOF**  
METAL - SLATE GRAY, LVR 18.76
- DOOR & WINDOW FRAMES, RAILINGS, TRIM**  
WHITE, LVR 99.2
- EXTERIOR WALLS**  
PLASTER - PALM DESERT TAN, LVR 43.07
- ARCHITECTURAL ACCENTS**  
STONE - MSI ALASKA GREY, LRV 44.42



**BARSANA RESIDENCE - ADU & JADU**

1 AUGUSTE CT  
MILPITAS, CA 95035

APN 029-35-007

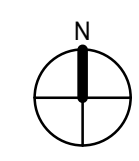
MILESTONE / REVISION	
DATE	REMARKS

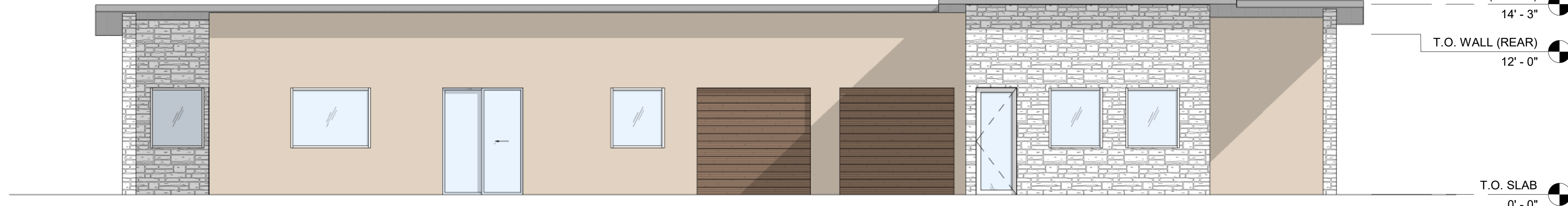
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FLOOR PLAN

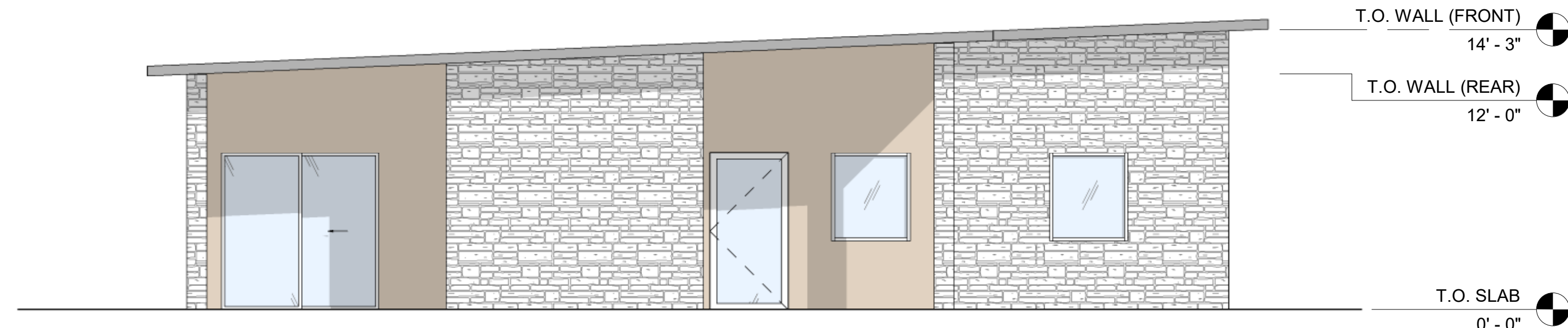
SHEET  
**A01**

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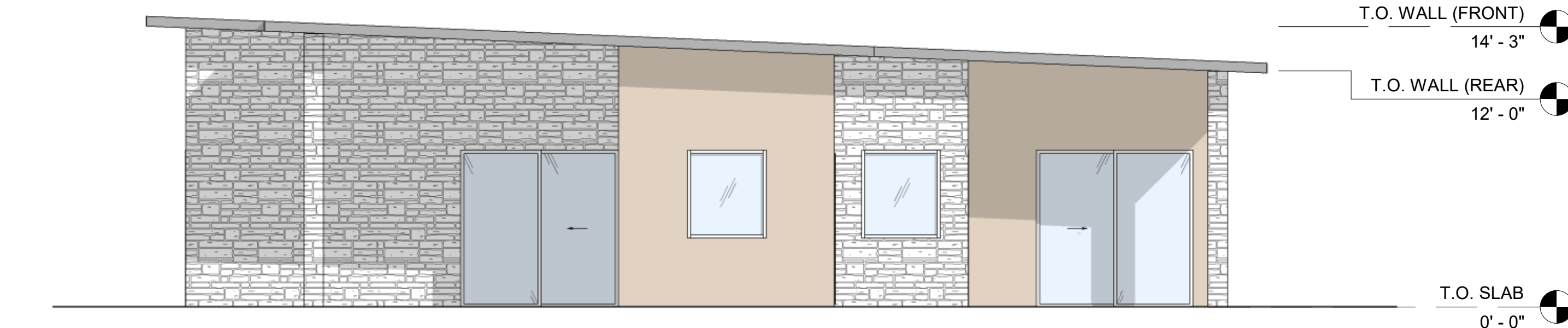
1 North  
3/16" = 1'-0"



2 East  
3/16" = 1'-0"



3 South  
3/16" = 1'-0"



4 West  
3/16" = 1'-0"

**MATERIALS**

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

	<b>STANDING SEAM ROOF</b> METAL - SLATE GRAY, LVR 18.76
	<b>DOOR &amp; WINDOW FRAMES, RAILINGS, TRIM</b> WHITE, LVR 99.2
	<b>EXTERIOR WALLS</b> PLASTER - PALM DESERT TAN, LVR 43.07
	<b>ARCHITECTURAL ACCENTS</b> STONE - MSI ALASKA GREY, LRV 44.42



**BARSANA RESIDENCE - ADU & JADU**

1 AUGUSTE CT  
MILPITAS, CA 95035  
APN 029-35-007

MILESTONE / REVISION	
DATE	REMARKS

DATE: 2/28/2024

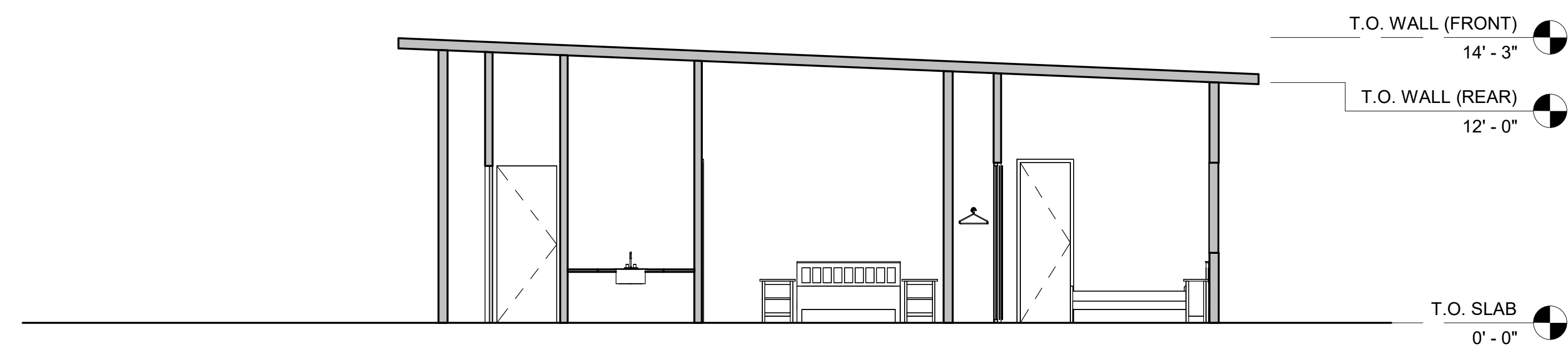
**ELEVATIONS**

SHEET  
**A02**

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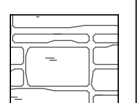
1 Section 1  
3/16" = 1'-0"

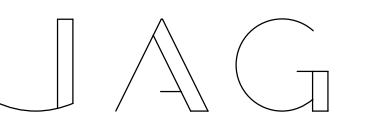


2 Section 2  
3/16" = 1'-0"

**MATERIALS**

NOTE: 144 SF OF PLASTER REQUIRES A CONTROL JOINT

	<b>STANDING SEAM ROOF</b> METAL - SLATE GRAY, LVR 18.76
	<b>DOOR &amp; WINDOW FRAMES, RAILINGS, TRIM</b> WHITE, LVR 99.2
	<b>EXTERIOR WALLS</b> PLASTER - PALM DESERT TAN, LVR 43.07
	<b>ARCHITECTURAL ACCENTS</b> STONE - MSI ALASKA GREY, LVR 44.42



JOHNSTON ARCHITECTURE GROUP  
MATTHEW.JOHNSTON.AIA@GMAIL.COM

**BARSANA RESIDENCE - ADU & JADU**

1 AUGUSTE CT  
MILPITAS, CA 95035

APN 029-35-007

MILESTONE / REVISION	
DATE	REMARKS

DATE: 2/28/2024

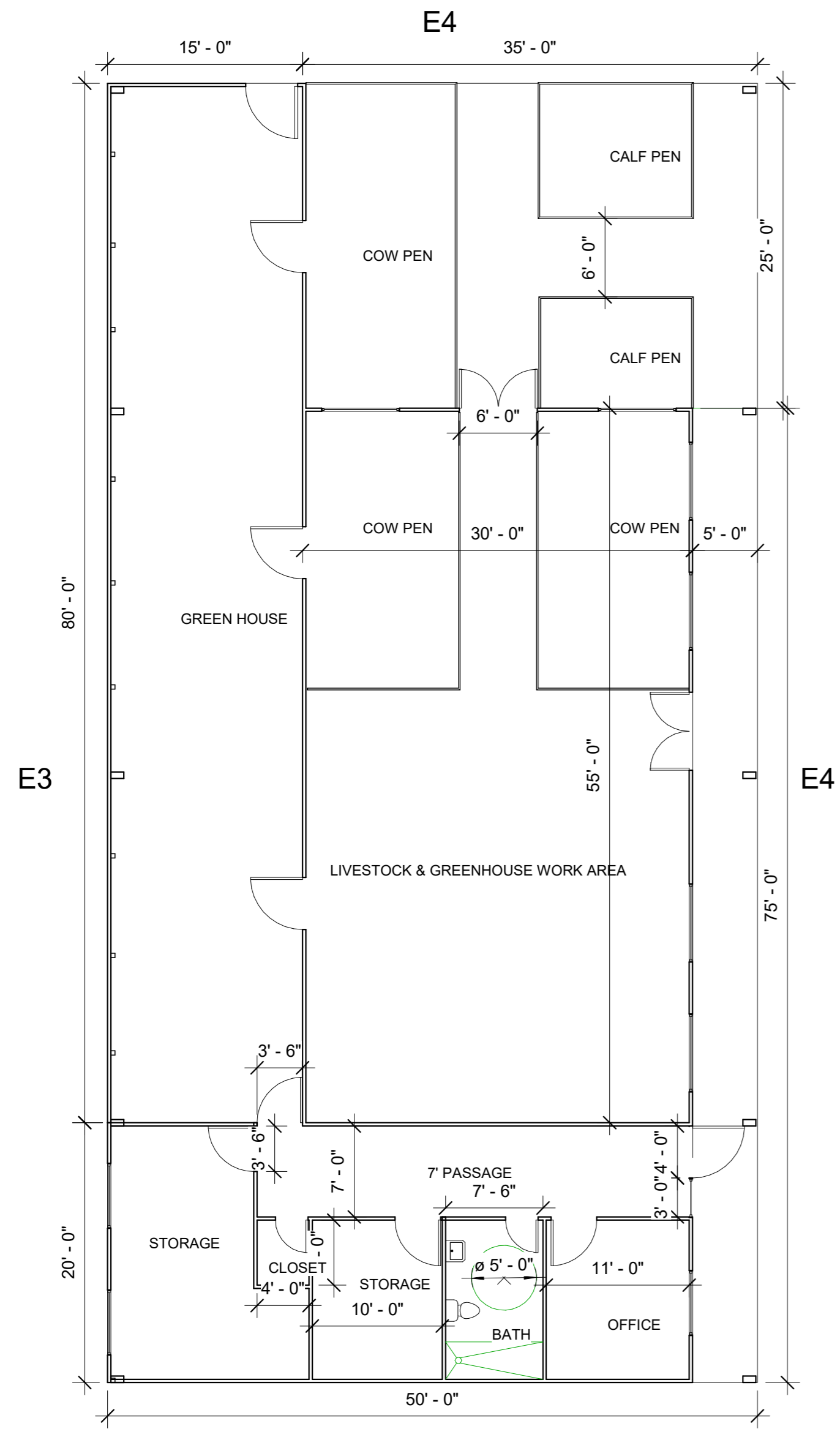
SECTIONS

SHEET  
**A03**

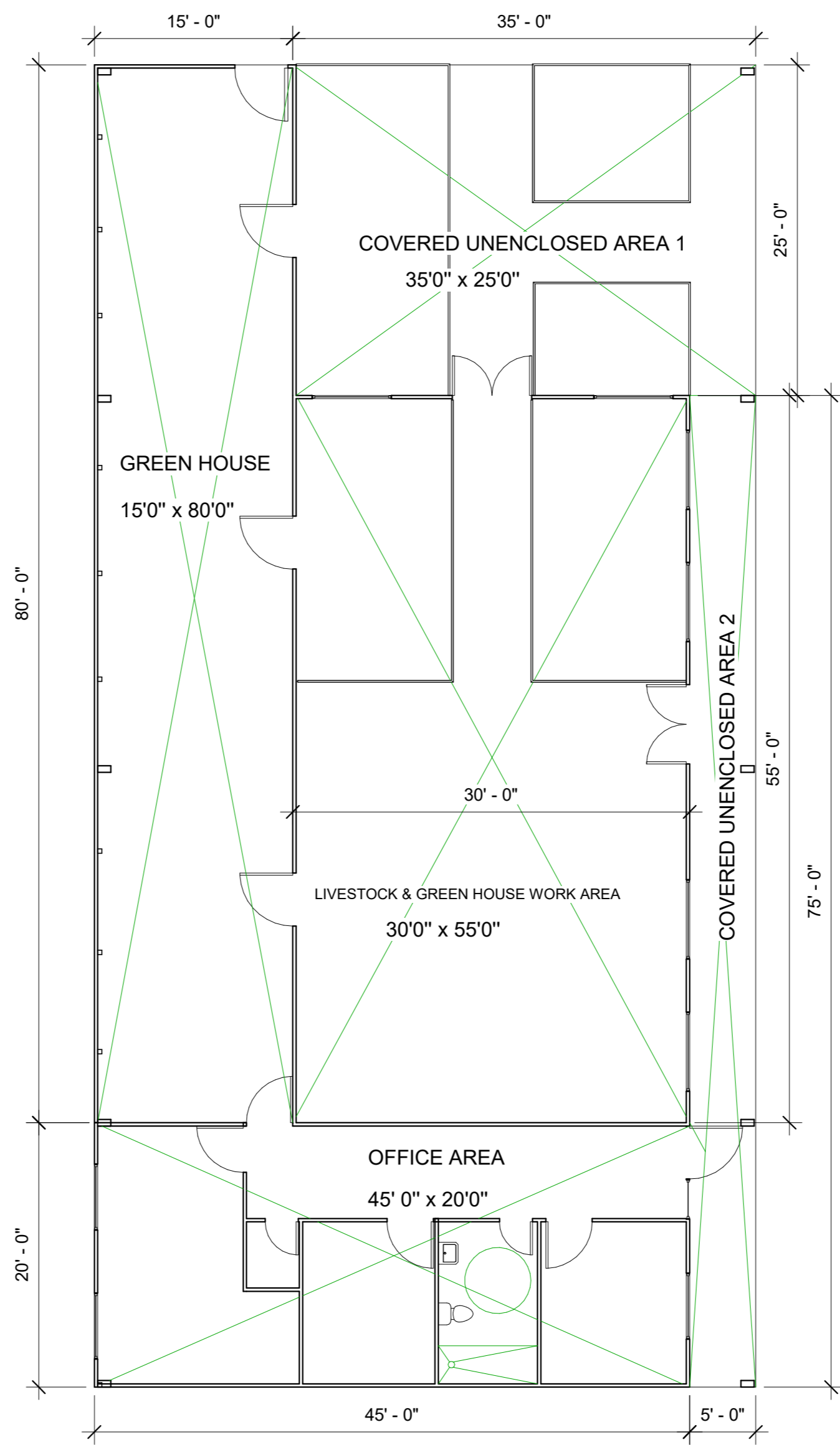
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**1** FIRST FLOOR  
1/8" = 1'-0"



**2** AREA PLAN  
1/8" = 1'-0"

<b>GROSS FLOOR AREA MAIN BUILDING:</b>	
LIVESTOCK & GREENHOUSE WORK AREA = 55 X 30 =	1,650 SQFT
OFFICE AREA = 45 X 20 =	900 SQFT
<b>TOTAL GROSS COVERED AREA</b>	<b>= 2550 SQFT</b>
<b>GROSS FLOOR AREA GREEN HOUSE = 80X15= 1,200 SQFT</b>	
<b>COVERED AREA UNENCLOSED PORTION:</b>	
COVERED UNENCLOSED AREA 1 = 35 X 25 =	875 SQFT
COVERED UNENCLOSED AREA 2 = 5 X 75 =	375 SQFT
<b>TOTAL COVERED UNENCLOSED AREA</b>	<b>= 1,250 SQFT</b>

COLOR AND MATERIAL LEGEND		
<b>WALL CLADDING</b> BROWNSTONE (LRV 19.29) MANUF: METL SPAN STANDARD II EXTERIOR COLORS	<b>METAL ROOFING</b> TERRA COTTA (LRV 8.29) MANUF: METL SPAN PREMIUM I EXTERIOR COLORS	<b>DOOR &amp; WINDOW FRAMES,            &amp; TRIMS, GUTTERS &amp;            EAVES</b> MEDIUM BRONZE (LRV 19.17)
<b>STRUCTURAL STEEL</b> PAINT MATCH BENJAMIN MOORE: RUSTIC TAUPE 999 OR EQ.	<b>DOOR LEAFS</b> PAINT MATCH BENJAMIN MOORE: RED ROCK 2005-10 OR EQ.	<b>PAINT MATCH</b> BENJAMIN MOORE: STONE BROWN 2112-30 OR EQ.



**ARCHITECT:**  
 AJAY GOEL  
 748 BLUE STONE CIRCLE  
 FOLSOM, CA 95630  
 916-294-5337

**PROJECT TITLE:**  
 BARSANA RESIDENCE  
 AUGUSTE COURT | APN 029-35-007  
 MILPITAS, CA 95035

**CHECK BY:** VARUN

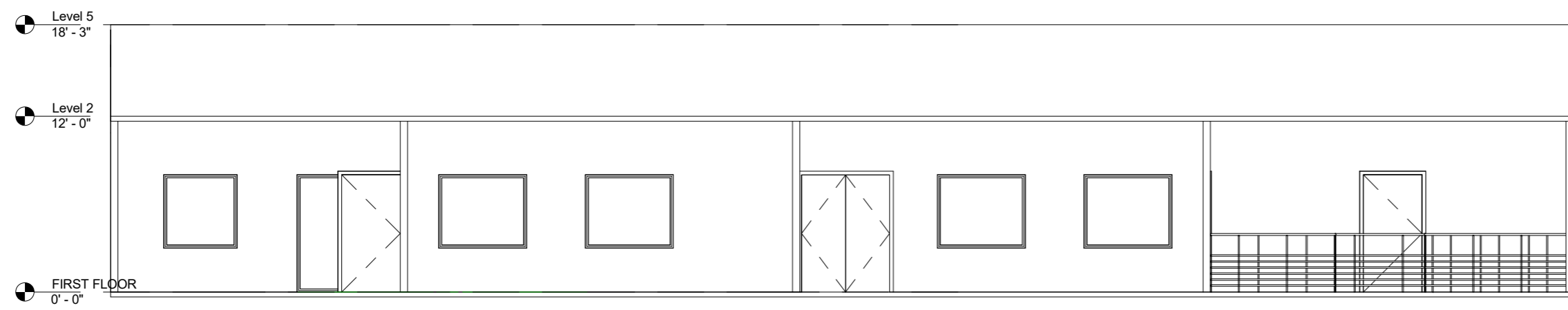
**DRAWN BY:** VARUN

**SUBJECT:**  
 LIVESTOCK &  
 GREEN HOUSE  
 SHED

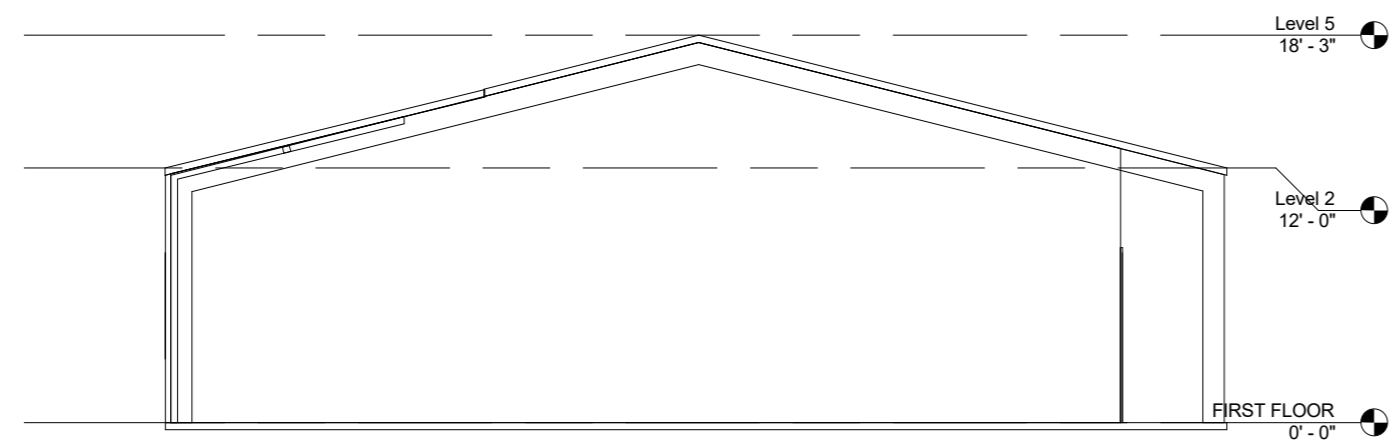
**PLAN**  
**AREA PLAN**

LSS 01

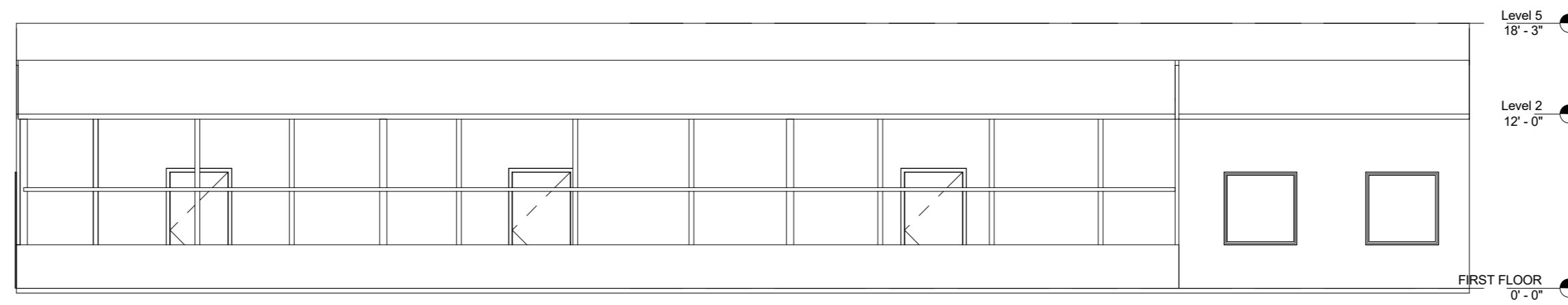
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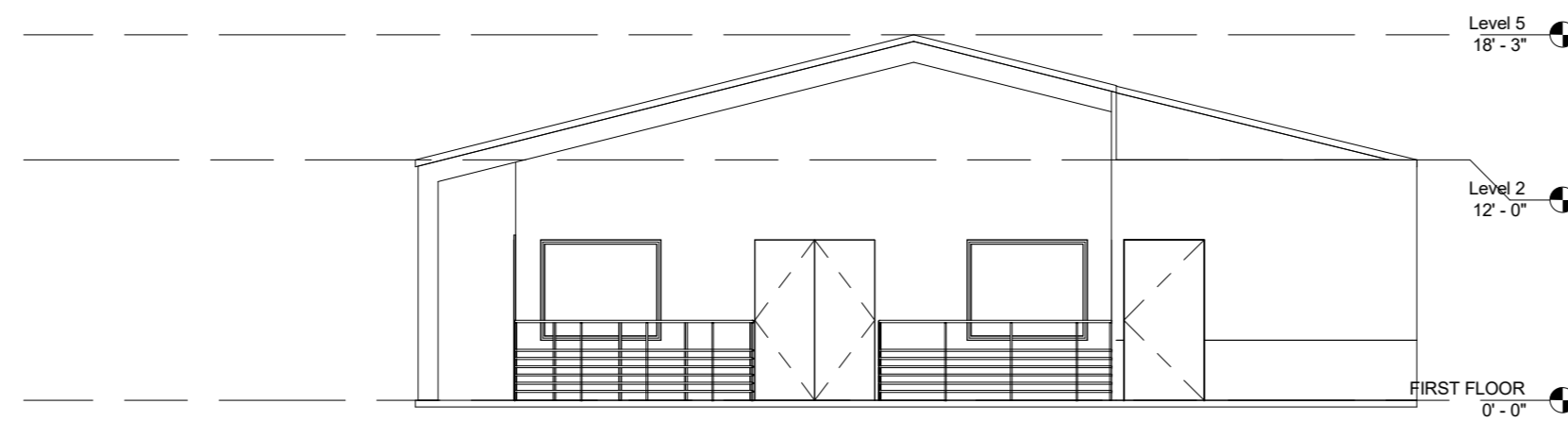
1 E1  
1/8" = 1'-0"



2 E2  
1/8" = 1'-0"



3 E3  
1/8" = 1'-0"



4 E4  
1/8" = 1'-0"

COLOR AND MATERIAL LEGEND		
<b>WALL CLADDING</b> BROWNSTONE (LRV 19.29) MANUF: METL SPAN STANDARD II EXTERIOR COLORS	<b>METAL ROOFING</b> TERRA COTTA (LRV 8.29) MANUF: METL SPAN PREMIUM I EXTERIOR COLORS	<b>DOOR &amp; WINDOW FRAMES,            &amp; TRIMS, GUTTERS &amp;            EAVES</b> MEDIUM BRONZE (LRV 19.17)
<b>STRUCTURAL STEEL</b> PAINT MATCH BENJAMIN MOORE: RUSTIC TAUPE 999 OR EQ.	<b>DOOR LEAFS</b> PAINT MATCH BENJAMIN MOORE: RED ROCK 2005-10 OR EQ.	<b>PAINT MATCH:</b> BENJAMIN MOORE: STONE BROWN 2114-30 OR EQ.



ARCHITECT:  
 AJAY GOEL  
 748 BLUE STONE CIRCLE  
 FOLSOM, CA 95630  
 916-294-5337

PROJECT TITLE:  
 BARSANA RESIDENCE  
 AUGUSTE COURT | APN 029-35-007  
 MILPITAS, CA 95035

CHECK BY:  
 DRAWN BY: VARUN

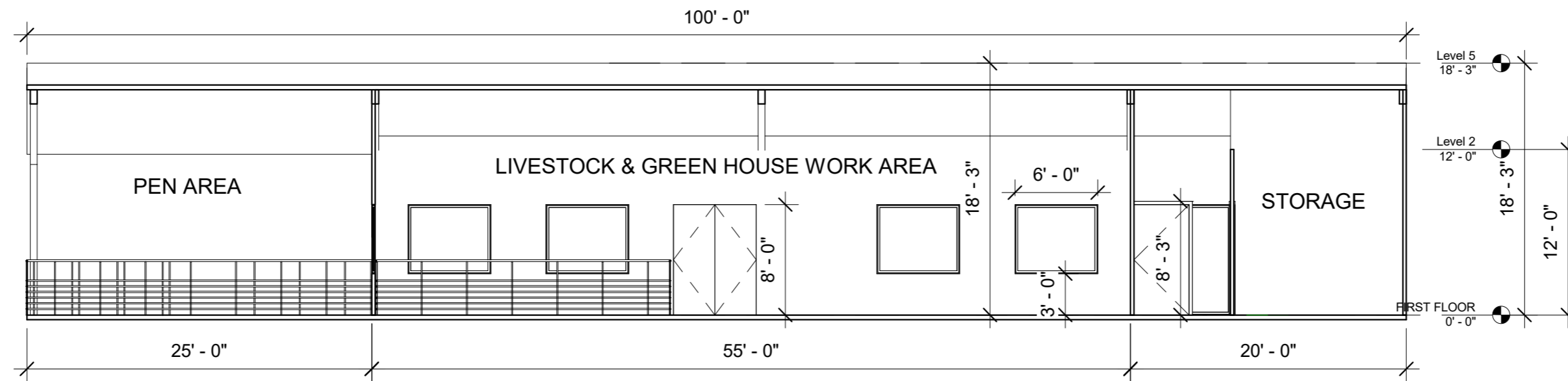
SUBJECT:  
 LIVESTOCK &  
 GREEN HOUSE  
 SHED

ELEVATIONS

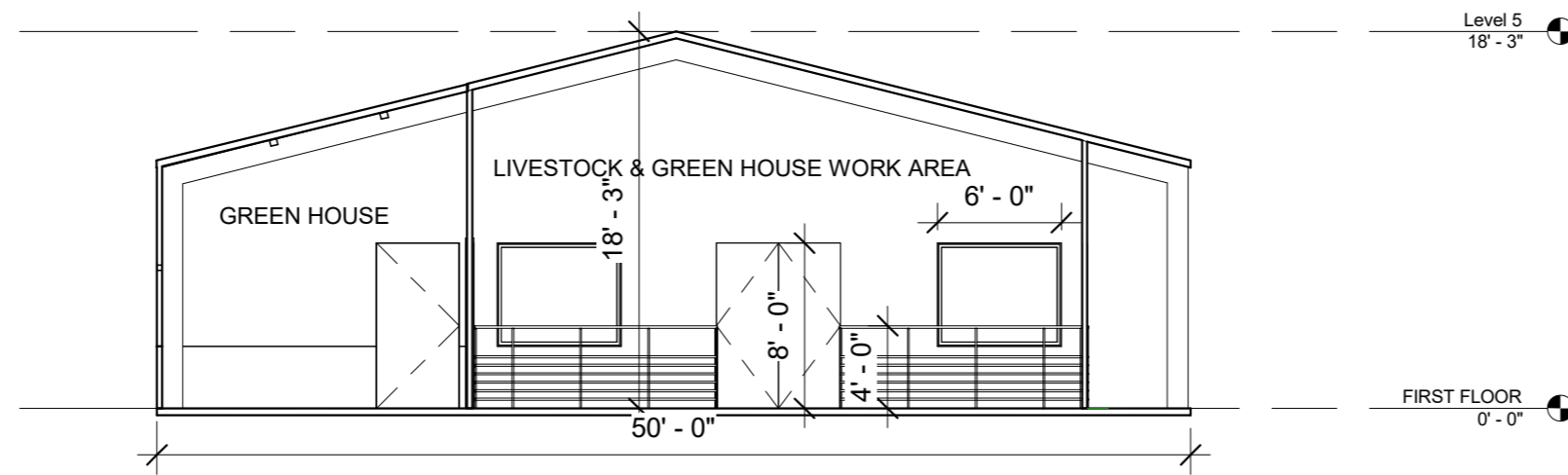
LSS 02

SCALE: 1"=8"

DATE: 02-14-2024



1 Section 1  
1/8" = 1'-0"



2 Section 2  
1/8" = 1'-0"

COLOR AND MATERIAL LEGEND		
<b>WALL CLADDING</b> BROWNSTONE (LRV 19.29) MANUF: METL SPAN STANDARD II EXTERIOR COLORS	<b>METAL ROOFING</b> TERRA COTTA (LRV 8.29) MANUF: METL SPAN PREMIUM I EXTERIOR COLORS	<b>DOOR &amp; WINDOW FRAMES,            &amp; TRIMS, GUTTERS &amp;            EAVES</b> MEDIUM BRONZE (LRV 19.17)
<b>STRUCTURAL STEEL</b> PAINT MATCH BENJAMIN MOORE: RUSTIC TAUPE 999 OR EQ.	<b>DOOR LEAFS</b> PAINT MATCH BENJAMIN MOORE: RED ROCK 2005-10 OR EQ.	<b>PAINT MATCH</b> BENJAMIN MOORE: STONE BROWN 2112-30 OR EQ.



ARCHITECT:  
 AJAY GOEL  
 748 BLUE STONE CIRCLE  
 FOLSOM, CA 95630  
 916-294-5337

PROJECT TITLE:  
 BARSANA RESIDENCE  
 AUGUSTE COURT | APN 029-35-007  
 MILPITAS, CA 95035

CHECK BY: VARUN

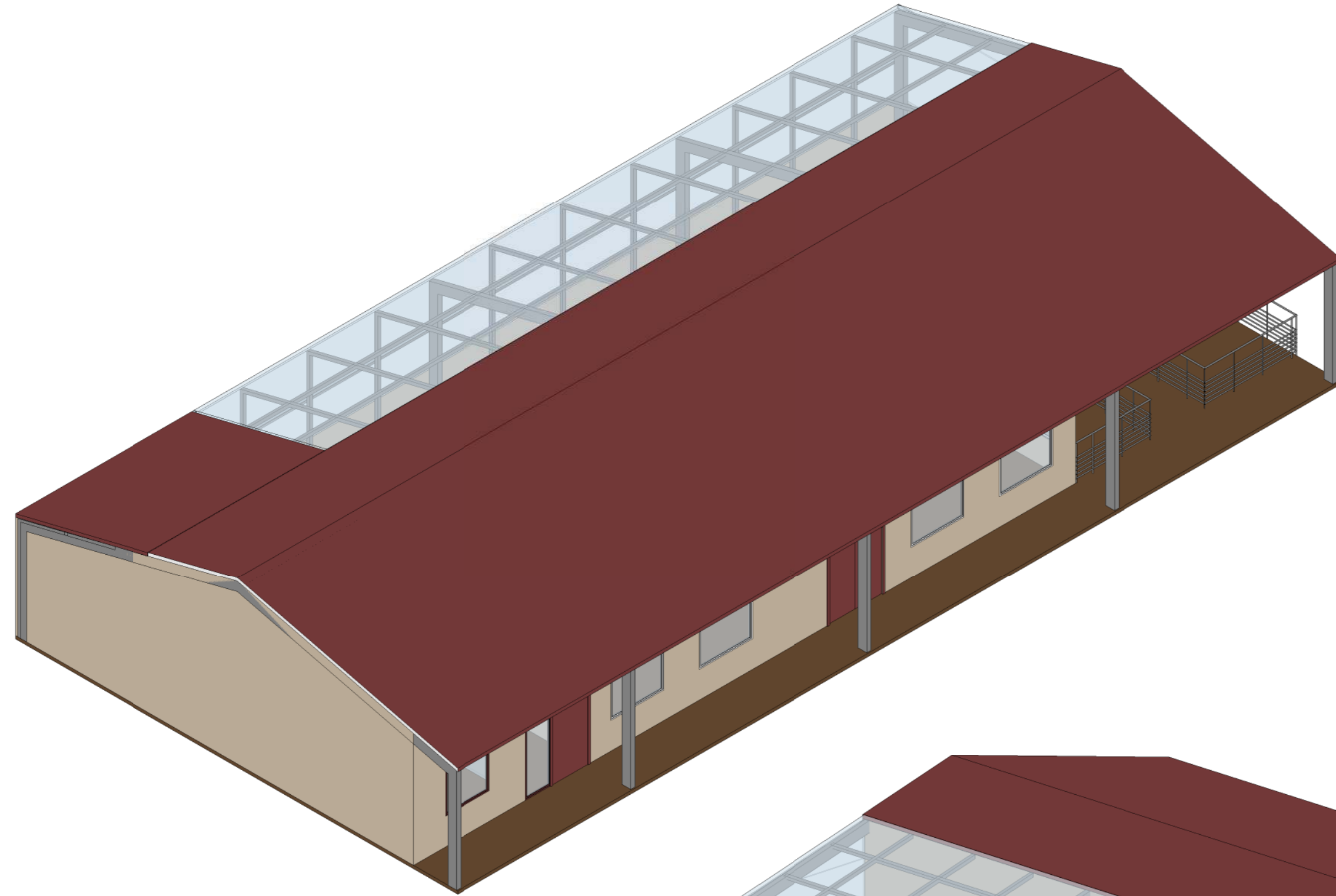
SUBJECT:  
 LIVESTOCK &  
 GREEN HOUSE  
 SHED

SECTIONS

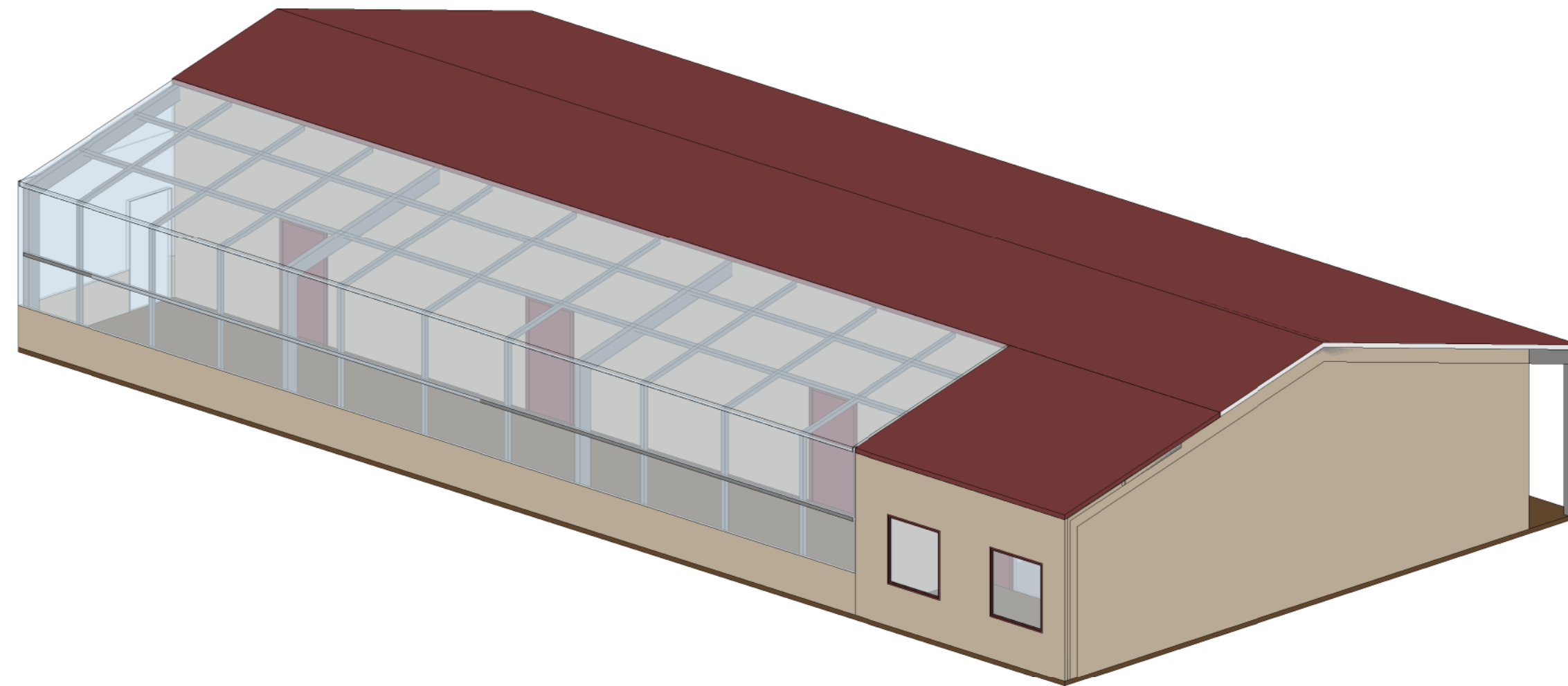
LSS 03

SCALE: 1"=8'

DATE: 02-14-2024



6 VIEW FROM E2



7 VIEW FROM E4

COLOR AND MATERIAL LEGEND		
<b>WALL CLADDING</b> BROWNSTONE (LRV 19.29) MANUF: METL SPAN STANDARD II EXTERIOR COLORS	<b>METAL ROOFING</b> TERRA COTTA (LRV 8.29) MANUF: METL SPAN PREMIUM I EXTERIOR COLORS	<b>DOOR &amp; WINDOW FRAMES,            &amp; TRIMS, GUTTERS &amp;            EAVES</b> MEDIUM BRONZE (LRV 10.17)
<b>STRUCTURAL STEEL</b> PAINT MATCH BENJAMIN MOORE: RUSTIC TALPE 999 OR EQ.	<b>DOOR LEAFS</b> PAINT MATCH BENJAMIN MOORE: RED ROCK 2005-10 OR EQ.	<b>PAINT MATCH:</b> BENJAMIN MOORE: STONE BROWN 2112-30 OR EQ.



ARCHITECT:  
 AJAY GOEL  
 748 BLUE STONE CIRCLE  
 FOLSOM, CA 95630  
 916-294-5337

PROJECT TITLE:  
 BARSANA RESIDENCE  
 AUGUSTE COURT | APN 029-35-007  
 MILPITAS, CA 95035

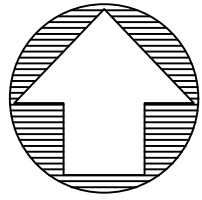
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SUBJECT:  
 LIVESTOCK &  
 GREEN HOUSE  
 SHED

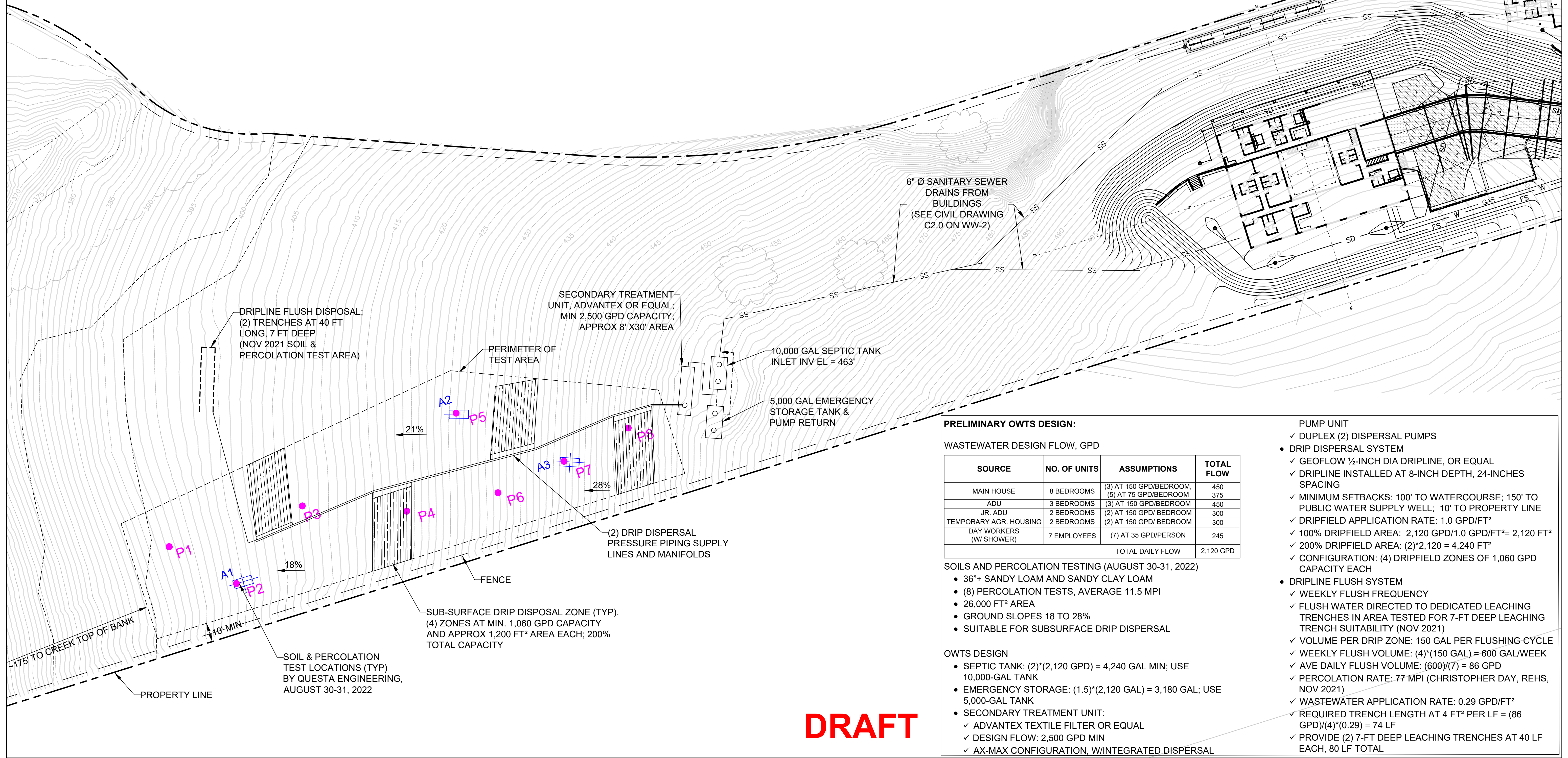
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LSS 04

SCALE: 1"=8'  
 DATE: 02-14-2024



0 30 60 Feet



**PRELIMINARY OWTS DESIGN:**

**WASTEWATER DESIGN FLOW, GPD**

SOURCE	NO. OF UNITS	ASSUMPTIONS	TOTAL FLOW
MAIN HOUSE	8 BEDROOMS	(3) AT 150 GPD/BEDROOM, (5) AT 75 GPD/BEDROOM	450
ADU	3 BEDROOMS	(3) AT 150 GPD/BEDROOM	450
JR. ADU	2 BEDROOMS	(2) AT 150 GPD/ BEDROOM	300
TEMPORARY AGR. HOUSING	2 BEDROOMS	(2) AT 150 GPD/ BEDROOM	300
DAY WORKERS (W/ SHOWER)	7 EMPLOYEES	(7) AT 35 GPD/PERSON	245
TOTAL DAILY FLOW			2,120 GPD

**SOILS AND PERCOLATION TESTING (AUGUST 30-31, 2022)**

- 36"+ SANDY LOAM AND SANDY CLAY LOAM
- (8) PERCOLATION TESTS, AVERAGE 11.5 MPI
- 26,000 FT<sup>2</sup> AREA
- GROUND SLOPES 18 TO 28%
- SUITABLE FOR SUBSURFACE DRIP DISPERSAL

**OWTS DESIGN**

- SEPTIC TANK: (2)\*(2,120 GPD) = 4,240 GAL MIN; USE 10,000-GAL TANK
- EMERGENCY STORAGE: (1.5)\*(2,120 GAL) = 3,180 GAL; USE 5,000-GAL TANK
- SECONDARY TREATMENT UNIT:
  - ✓ ADVANTEX TEXTILE FILTER OR EQUAL
  - ✓ DESIGN FLOW: 2,500 GPD MIN
  - ✓ AX-MAX CONFIGURATION, W/INTEGRATED DISPERSAL

**PUMP UNIT**

- ✓ DUPLEX (2) DISPERSAL PUMPS
- DRIP DISPERSAL SYSTEM
  - ✓ GEOFLOW 1/2-INCH DIA DRIPLINE, OR EQUAL
  - ✓ DRIPLINE INSTALLED AT 8-INCH DEPTH, 24-INCHES SPACING
  - ✓ MINIMUM SETBACKS: 100' TO WATERCOURSE; 150' TO PUBLIC WATER SUPPLY WELL; 10' TO PROPERTY LINE
  - ✓ DRIPFIELD APPLICATION RATE: 1.0 GPD/FT<sup>2</sup>
  - ✓ 100% DRIPFIELD AREA: 2,120 GPD/1.0 GPD/FT<sup>2</sup>= 2,120 FT<sup>2</sup>
  - ✓ 200% DRIPFIELD AREA: (2)\*2,120 = 4,240 FT<sup>2</sup>
  - ✓ CONFIGURATION: (4) DRIPFIELD ZONES OF 1,060 GPD CAPACITY EACH
- DRIPLINE FLUSH SYSTEM
  - ✓ WEEKLY FLUSH FREQUENCY
  - ✓ FLUSH WATER DIRECTED TO DEDICATED LEACHING TRENCHES IN AREA TESTED FOR 7-FT DEEP LEACHING TRENCH SUITABILITY (NOV 2021)
  - ✓ VOLUME PER DRIP ZONE: 150 GAL PER FLUSHING CYCLE
  - ✓ WEEKLY FLUSH VOLUME: (4)\*(150 GAL) = 600 GAL/WEEK
  - ✓ AVE DAILY FLUSH VOLUME: (600)/(7) = 86 GPD
  - ✓ PERCOLATION RATE: 77 MPI (CHRISTOPHER DAY, REHS, NOV 2021)
  - ✓ WASTEWATER APPLICATION RATE: 0.29 GPD/FT<sup>2</sup>
  - ✓ REQUIRED TRENCH LENGTH AT 4 FT<sup>2</sup> PER LF = (86 GPD)/(4)\*(0.29) = 74 LF
  - ✓ PROVIDE (2) 7-FT DEEP LEACHING TRENCHES AT 40 LF EACH, 80 LF TOTAL

**DRAFT**

**BARSANA RESIDENCE OWTS**

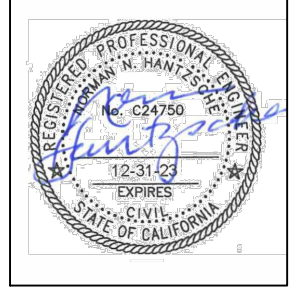
APN: 029-35-007  
MILPITAS, CA

**QUESTA**  
ENGINEERING CORP.

Civil Environmental & Water Resources

(510) 236-6114  
FAX (510) 236-2423  
questa@questaec.com

P.O. Box 70356 1220 Brickyard Cove Road Point Richmond, CA 94807



Sht:	Rev:	Date:	By:	Description:	Appr'd:

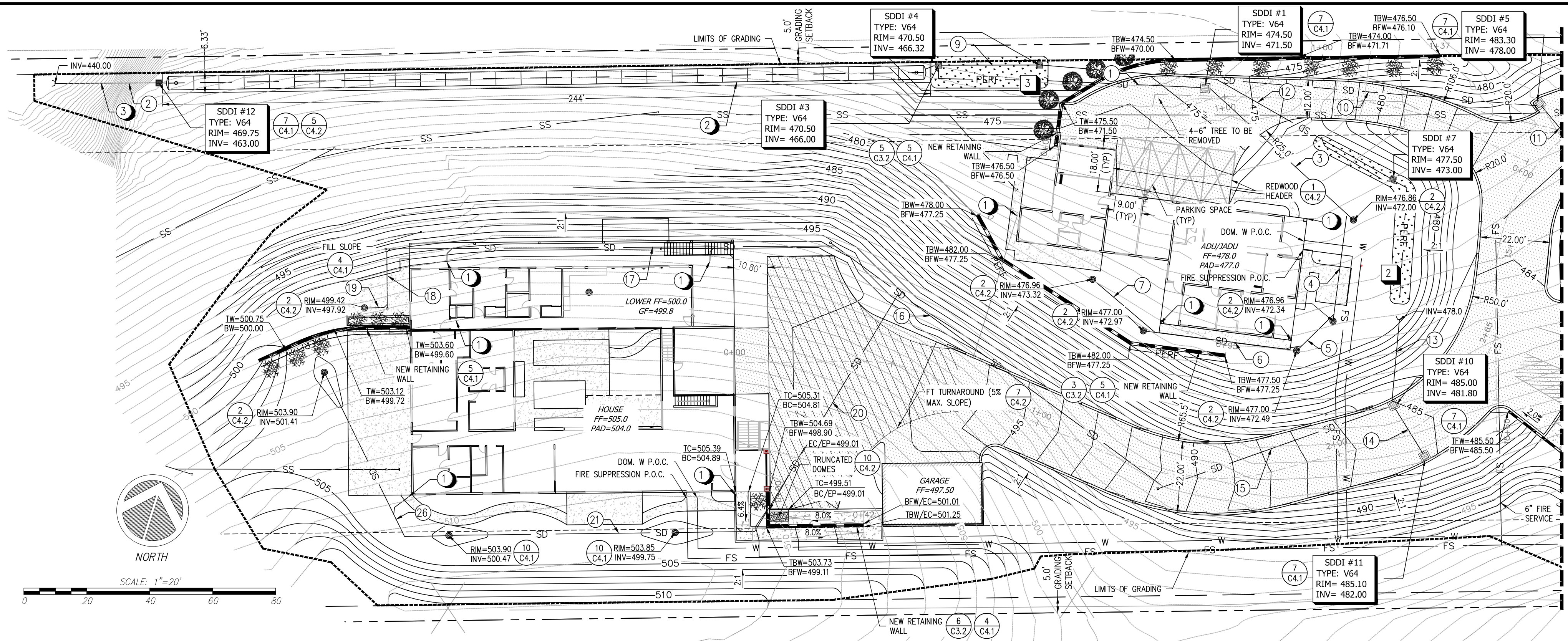
Design:	MW
Drawn:	PS
Checked:	NH
Appr'd:	NH

**ONSITE WASTEWATER TREATMENT AND DISPOSAL PLAN**

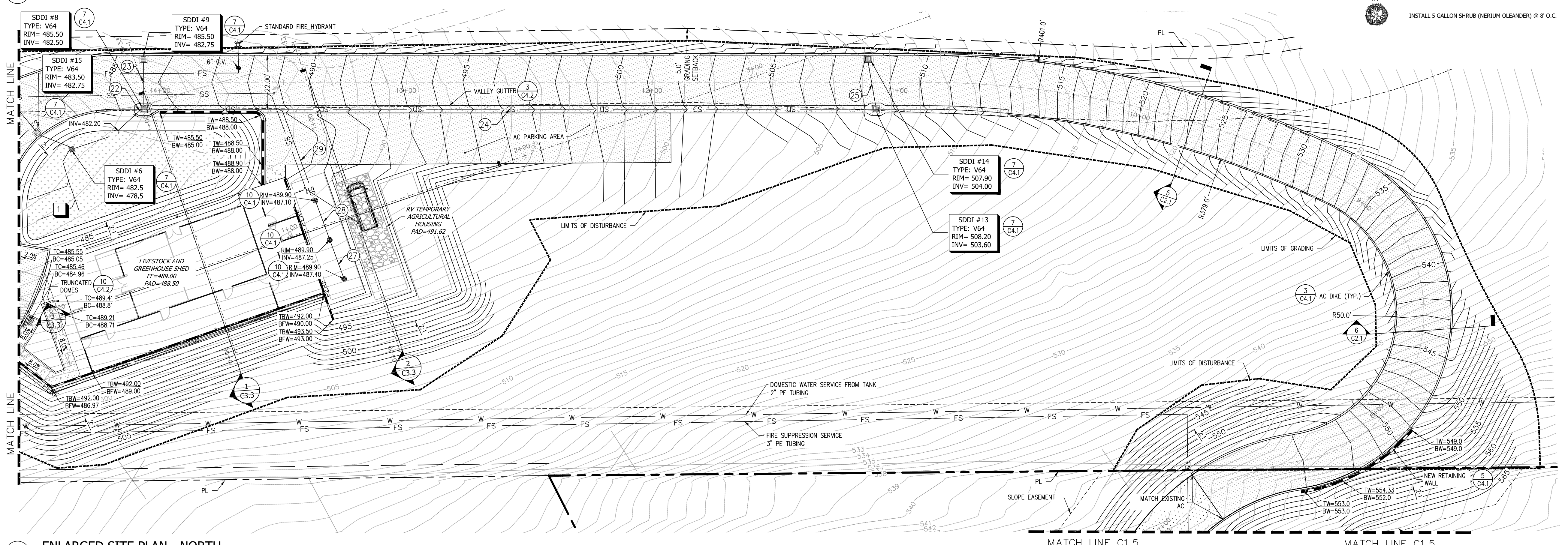
BARSANA RESIDENCE, MILPITAS, CA

Size	Project
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Scale:	AS NOTED
Date:	10/19/22
Sheet:	WW-1

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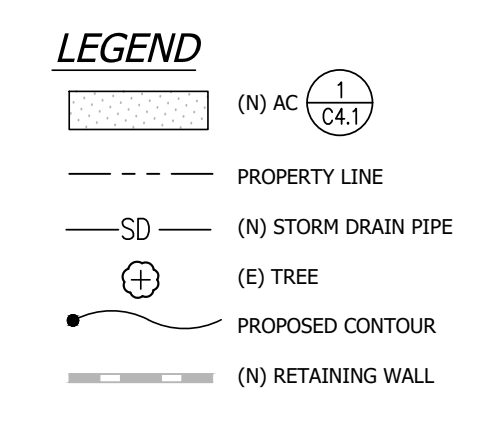


1 ENLARGED SITE PLAN - SOUTH



2 ENLARGED SITE PLAN - NORTH

- BIO-RETENTION NOTES**
- BIO-RETENTION (BMP #2)  
2355 SQ. FT.  
TOP OF SOIL EL. = 482.0
  - BIO-RETENTION (BMP #3)  
389 SQ. FT.  
TOP OF SOIL EL. = 477.0
  - BIO-RETENTION (BMP #4)  
TOP OF SOIL EL. = 470.0



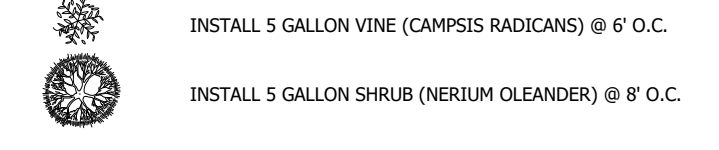
**STORM DRAINAGE PIPE DATA**

- 49 LF OF 8" SDR-35 @ 3.1% SLOPE
- 32 LF OF 12" HDPE @ 62.5% SLOPE
- 61 LF OF 6" SDR-35 @ 0.8% SLOPE
- 34 LF OF 6" SDR-35 @ 1.0% SLOPE
- 15 LF OF 6" SDR-35 @ 1.0% SLOPE
- 48 LF OF 6" SDR-35 @ 1.0% SLOPE
- 26 LF OF 6" SDR-35 @ 1.3% SLOPE
- NA
- 30 LF OF 10" SDR-35 @ 1.0% SLOPE
- 157 LF OF 8" SDR-35 @ 7.4% SLOPE
- 39 LF OF 8" SDR-35 @ 1.2% SLOPE
- 63 LF OF 8" SDR-35 @ 19.8% SLOPE
- 26 LF OF 6" SDR-35 @ 14.7% SLOPE
- 18 LF OF 8" SDR-35 @ 1.1% SLOPE
- 90 LF OF 6" SDR-35 @ 4.4% SLOPE
- 132 LF OF 6" SDR-35 @ 6.8% SLOPE
- 113 LF OF 6" SDR-35 @ 2.0% SLOPE
- 27 LF OF 6" SDR-35 @ 2.0% SLOPE
- 3 LF OF 6" SDR-35 @ 2.0% SLOPE
- 88 LF OF 6" SDR-35 @ 20.2% SLOPE
- 112 LF OF 6" SDR-35 @ 3.0% SLOPE
- 22 LF OF 6" SDR-35 @ 1.5% SLOPE
- 17 LF OF 6" SDR-35 @ 1.5% SLOPE
- 305 LF OF 6" SDR-35 @ 7.0% SLOPE
- 18 LF OF 6" SDR-35 @ 2.0% SLOPE
- 70 LF OF 6" SDR-35 @ 1.3% SLOPE
- 15 LF OF 6" SDR-35 @ 1.0% SLOPE
- 15 LF OF 6" SDR-35 @ 1.0% SLOPE
- 29 LF OF 6" SDR-35 @ 1.9% SLOPE

**STORM DRAINAGE NOTES:**

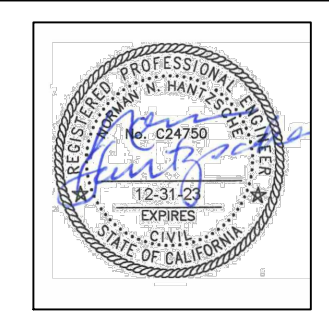
- CONNECT TO BUILDING DOWNSPOUT. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF DOWNSPOUT.
- STORMWATER STORAGE CHAMBERS. AREA DIMENSIONS 244.0' X 6.33'. SEE DETAIL 6, SHEET C4.2.
- ATTACH STORM DRAIN LINE TO EXISTING SLOPE WITH CALTRANS STANDARD TIE-DOWNS AND CONCRETE COLLARS

**PLANTING LEGEND (WALL SCREENING)**



**BARSANA RESIDENCE OWTS**  
 APN: 029-35-007  
 MILPITAS, CA

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Sht	Rev	Date	By	Description	App'd

Design:	MW
Drawn:	PS
Checked:	NH
App'd:	NH

**SITE PLAN (PER CIVIL DWG C2.0)**  
 BARSANA RESIDENCE, MILPITAS, CA

Project	2200017
Scale:	AS NOTED
Date:	3/6/24
Sheet:	WW-2

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