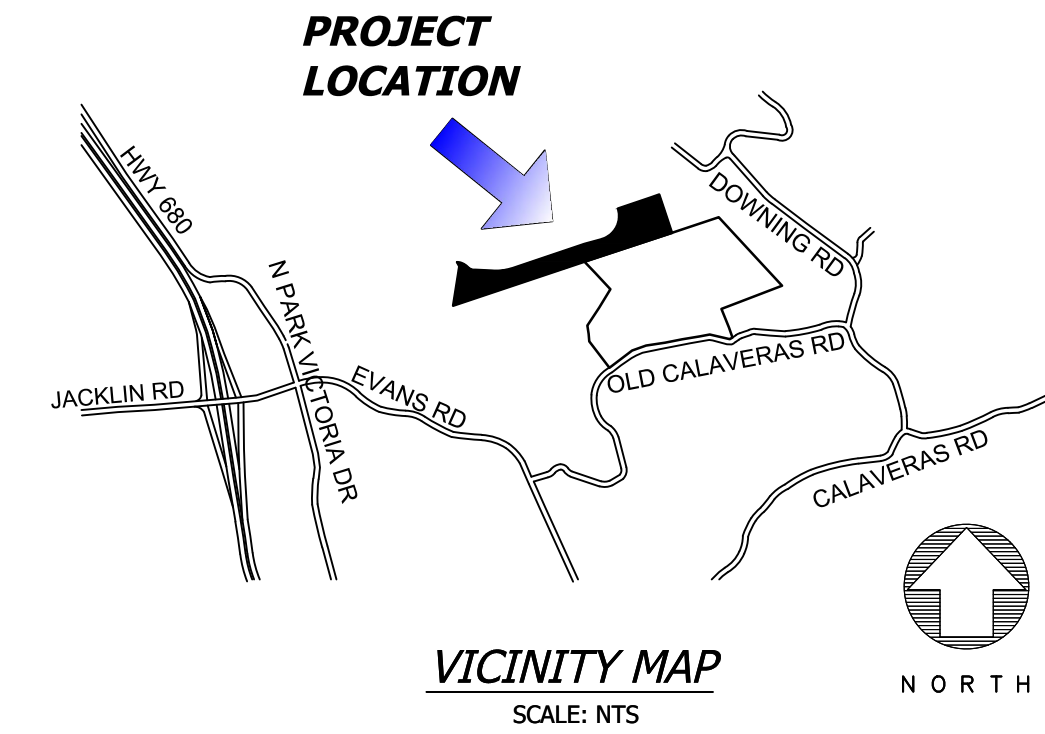


BARSANA RESIDENCE

APN: 029-35-007



INDEX OF SHEETS

- CD.1 - COVER SHEET
- CD.2 - PROPOSED EASEMENT
- CD.3 - PROPOSED EASEMENT
- C1.0 - EXISTING ACCESS ROAD PLAN
- C1.1 - EXISTING ACCESS ROAD 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

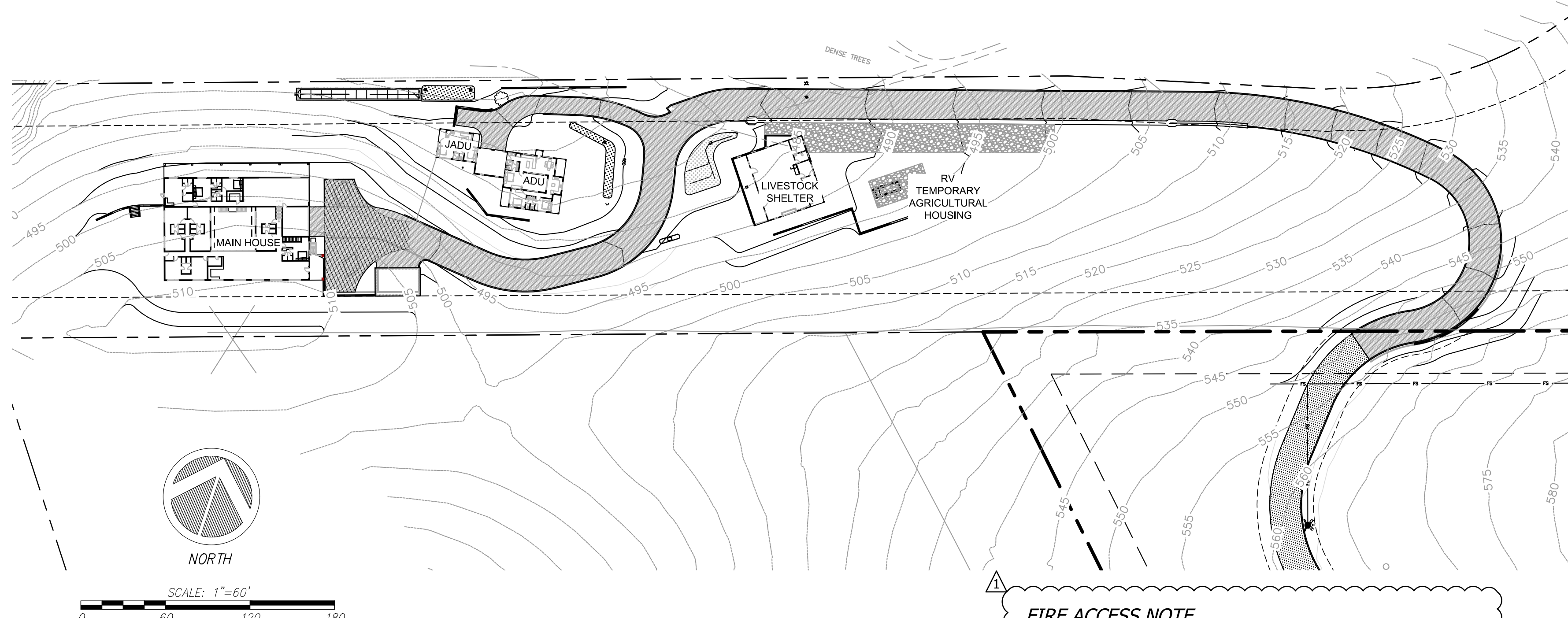
NO CHANGE TO THE GRADING PLAN SHALL BE PERMITTED WITHOUT PRIOR APPROVAL BY THE OWNER OR OWNERS REPRESENTATIVES.

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 SCOTTS VALLEY DRIVE STE. 6
 SCOTTS VALLEY, CA 95066
 OFFICE: (831) 438-4420

SURVEYOR

ALPHA LAND SURVEYS, INC.
 4444 SCOTTS VALLEY DRIVE STE. 7
 SCOTTS 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 ANIMAL SHELTERS. 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 = 7,999 SQ FT
 -PROPOSED DETACHED GARAGE = 462 SQ FT
 -PROPOSED JADU & ADU = 1,698 SQ FT
 -PROPOSED ANIMAL SHELTERS = 1,452 SQ FT
 -PROPOSED RV TEMPORARY AGRICULTURAL RESIDENCE = 248 SQ FT

(N) IMPERVIOUS AREAS TABLE			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
EXISTING	0	0	0
MAIN BUILDING & GARAGE	9,439	0.217	0.217
JADU & ADU	2,537	0.058	0.058
AC ROAD	23,632	0.543	0.543
CONCRETE VALLEY GUTTER	1,072	0.025	0.025
PROPOSED LIVESTOCK SHELTERS	1,452	0.033	0.033
GRAVEL BASEROCK (PARKING)	2,201	0.051	0.031
TOTAL (N) IMPERVIOUS AREA	43,333	0.995	0.995
TOTAL LOT AREA	686,854	15.768	15.768
IMPERVIOUS % OF TOTAL LOT			12.1%

IMPERVIOUS AREA IN APN 029-34-004			
DESCRIPTION	AREA (SQ. FT.)	AREA (ACRES)	EQUIVALENT AREA (ACRES)
NEW ASPHALT ROAD	18,780	0.431	0.431

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 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 BUILDING	682	418	264(C)	8	6
ADU/JADU	401	323	78(C)	5	4
ROAD (APN 029-35-007)	2808	2786	22(C)	11	7
ROAD (APN 029-34-004)	1746	2219	473(F)	6	8
LIVESTOCK SHELTER & RV PARKING	445	142	303(C)	3	3
TOTAL	6082	5888	194(C)		

NET VOLUME = 194 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

1. ALL DRIVEWAYS AND ACCESS ROADS TO MEET COUNTY STANDARD SD1.
2. 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%.
3. 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.
4. FIRE HYDRANT SHALL MEET STANDARDS SET IN CFMO-W2.
5. WATER TANK SHALL BE SIZED PER NFPA 1142 TO INCLUDE SPRINKLER DEMAND AND HYDRANT DEMAND.
6. ALL STRUCTURES SHALL MEET WILDLAND URBAN INTERFACE (WUI) REQUIREMENTS AT BUILDING PERMIT SUBMITTAL
7. NFPA 13 FIRE SPRINKLERS SHALL BE INSTALLED IN ALL BUILDINGS AND WILL BE A DEFERRED SUBMITTAL.
8. ALL DEFERRED SUBMITTALS FOR FIRE PROTECTION UNDERGROUND, FIRE HYDRANTS, WATER TANKS, & FIRE PUMP.
9. PROPERTY TO MAINTAIN 100 FEET DEFENSIBLE SPACE AT ALL TIMES.
10. STRUCTURES SHALL CONFORM TO WUI BUILDING REQUIREMENTS.

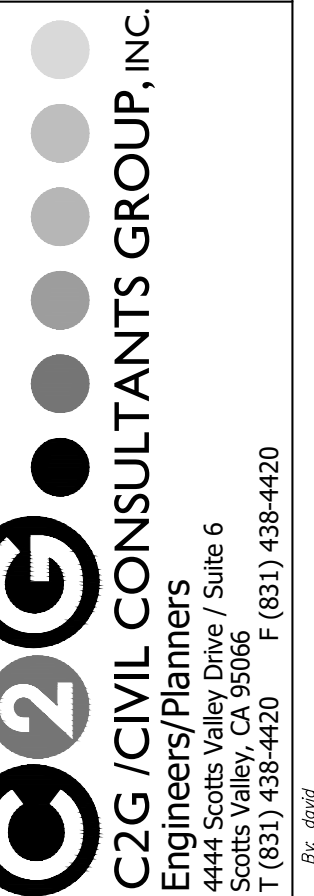
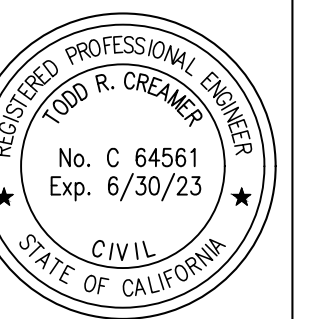
ALL CONSTRUCTION SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES AND THE CODES LISTED BELOW OR THE MOST CURRENT CODES AND ORDINANCES AT THE TIME OF SUBMITTAL

2022 CALIFORNIA CODES

1. 2022 CALIFORNIA BUILDING CODE
2. 2022 CALIFORNIA ELECTRICAL CODE
3. 2022 CALIFORNIA MECHANICAL CODE
4. 2022 CALIFORNIA PLUMBING CODE
5. 2022 CALIFORNIA GREEN CODE
6. 2022 CALIFORNIA ENERGY CODE
7. 2022 CALIFORNIA RESIDENTIAL CODE
8. 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: 08/06/21

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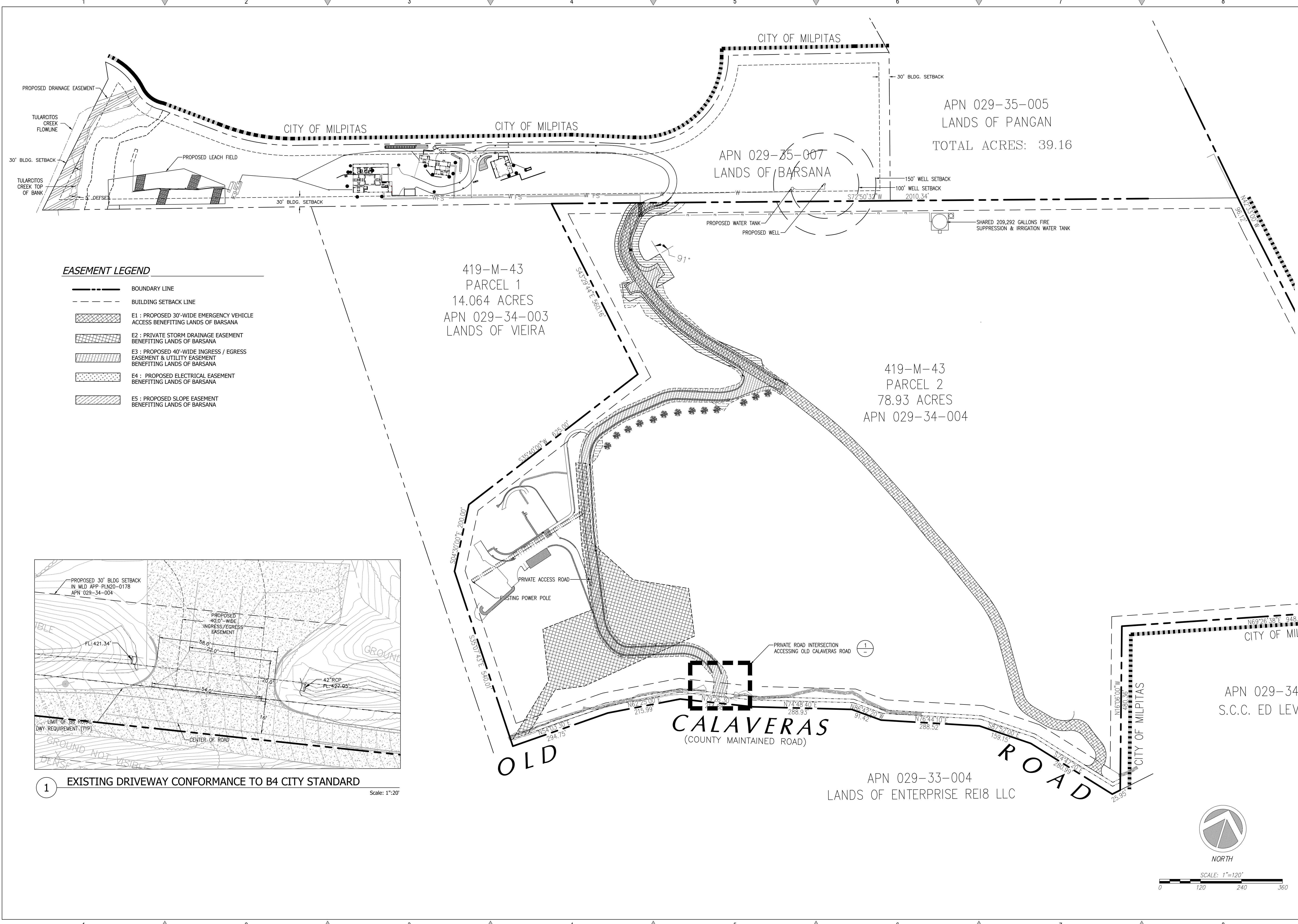
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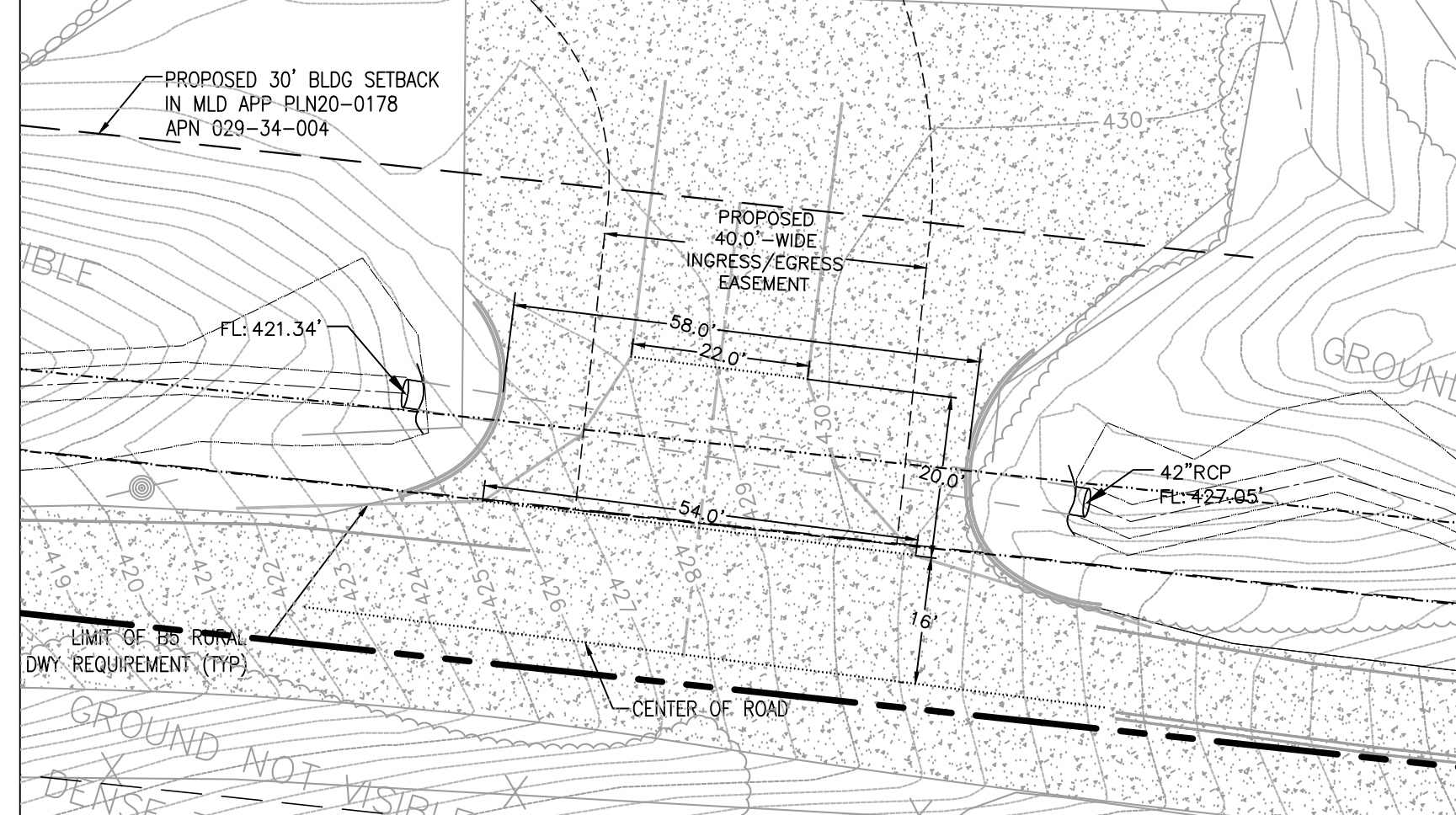
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of 37 Sheets



EASEMENT LEGEND

	BOUNDARY LINE
	BUILDING SETBACK LINE
	E1 : PROPOSED 30'-WIDE EMERGENCY VEHICLE ACCESS BENEFITING LANDS OF BARSANA
	E2 : PRIVATE STORM DRAINAGE EASEMENT BENEFITING LANDS OF BARSANA
	E3 : PROPOSED 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



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

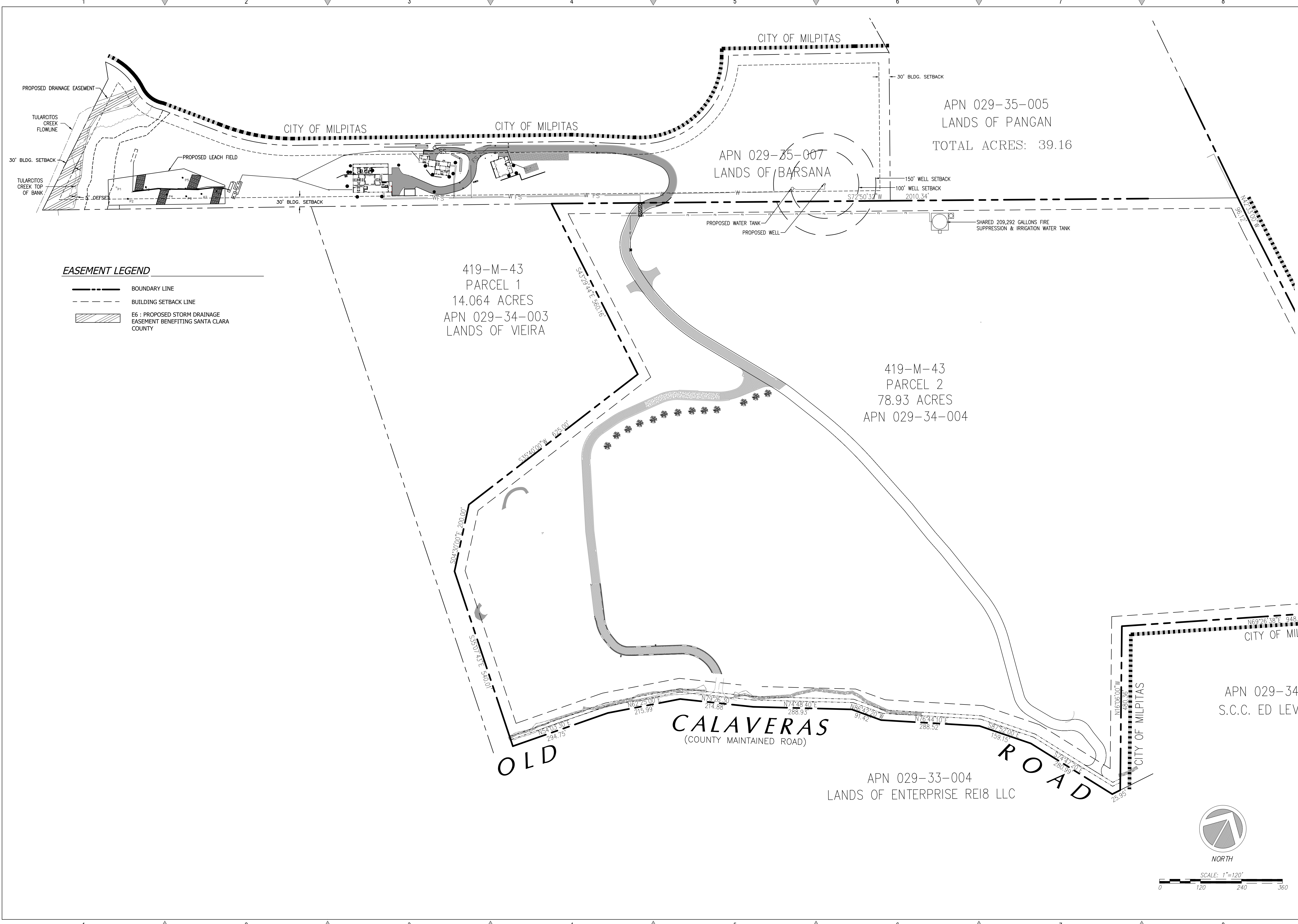
PROPOSED SITE ACCESS & EASEMENTS

REGISTERED PROFESSIONAL ENGINEER
TODD R. CREAGER
No. C 64561
Exp. 6/30/23
CIVIL
STATE OF CALIFORNIA

C2G CIVIL CONSULTANTS GROUP, INC.
Engineers/Planners
44000
Scots Valley, CA 95066
T (831) 438-4420 F (831) 438-4420
Last Printed: Wed Jun 28, 2023 - 8:51am By: davis

BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

Date: 08/06/21
Scale: 1" = 120'
Drawn: DD
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Of 37 Sheets

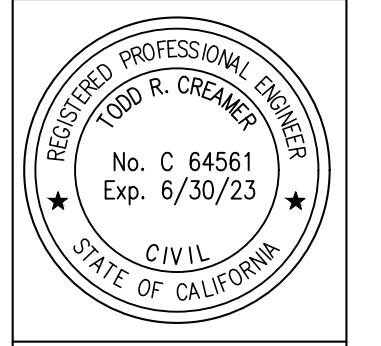


EASEMENT LEGEND

	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

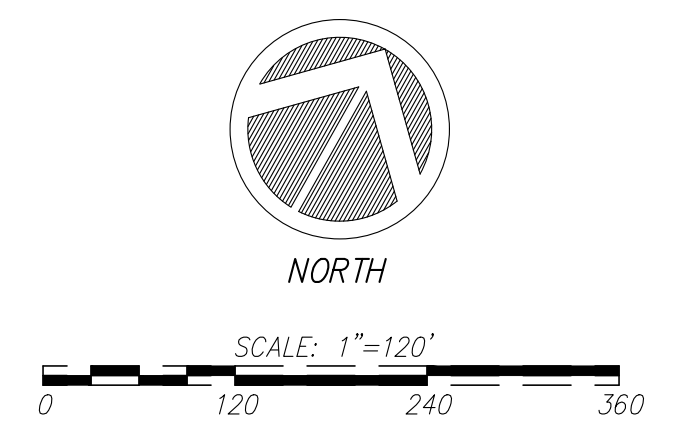
PROPOSED STORM DRAIN EASEMENTS



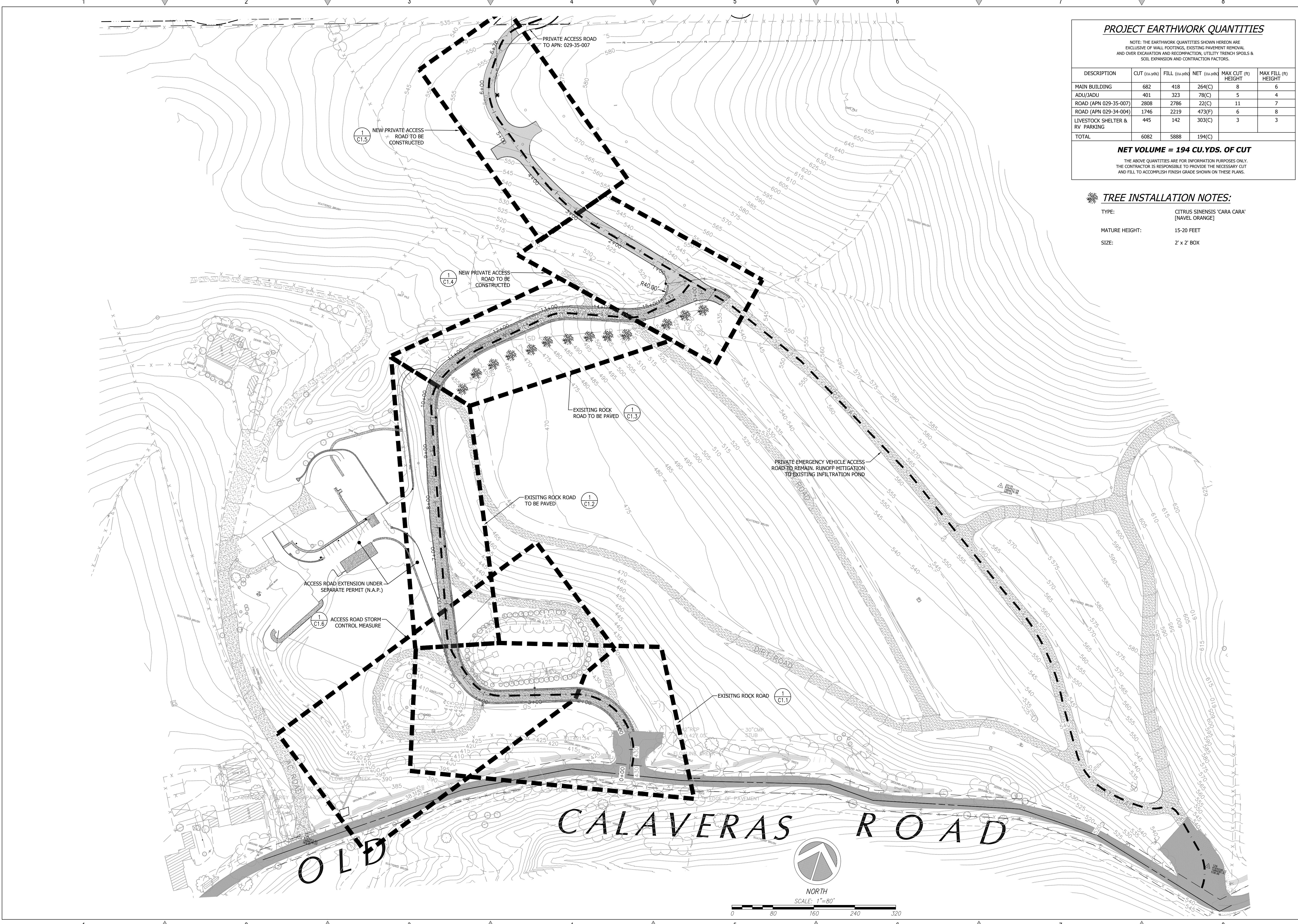
C2G CIVIL CONSULTANTS GROUP, INC.
 Engineers/Planners
 4400 Scotts Valley Blvd., Suite 6
 Scotts Valley, CA 95066
 T (831) 438-4420 F (831) 438-4420

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

Date:	08/06/21
Scale:	1" = 120'
Drawn:	DD
Job:	3007.02
Sheet:	C0.3
Of	37 Sheets



Drawing: Z:\Shared\CAD\000702 - MF - Barsana Residence\Design\CAD\Sheets\00702 - C0.3 - PROPOSED STORM DRAINAGE.dwg / Layout: C0.3 / User: Smeff / Date: 08/06/2021 / Time: 4:48pm / Plot: 08/06/2021 / Time: 4:52pm / By: ddw



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 BUILDING	682	418	264(C)	8	6
ADU/JADU	401	323	78(C)	5	4
ROAD (APN 029-35-007)	2808	2786	22(C)	11	7
ROAD (APN 029-34-004)	1746	2219	473(F)	6	8
LIVESTOCK SHELTER & RV PARKING	445	142	303(C)	3	3
TOTAL	6082	5888	194(C)		

NET VOLUME = 194 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

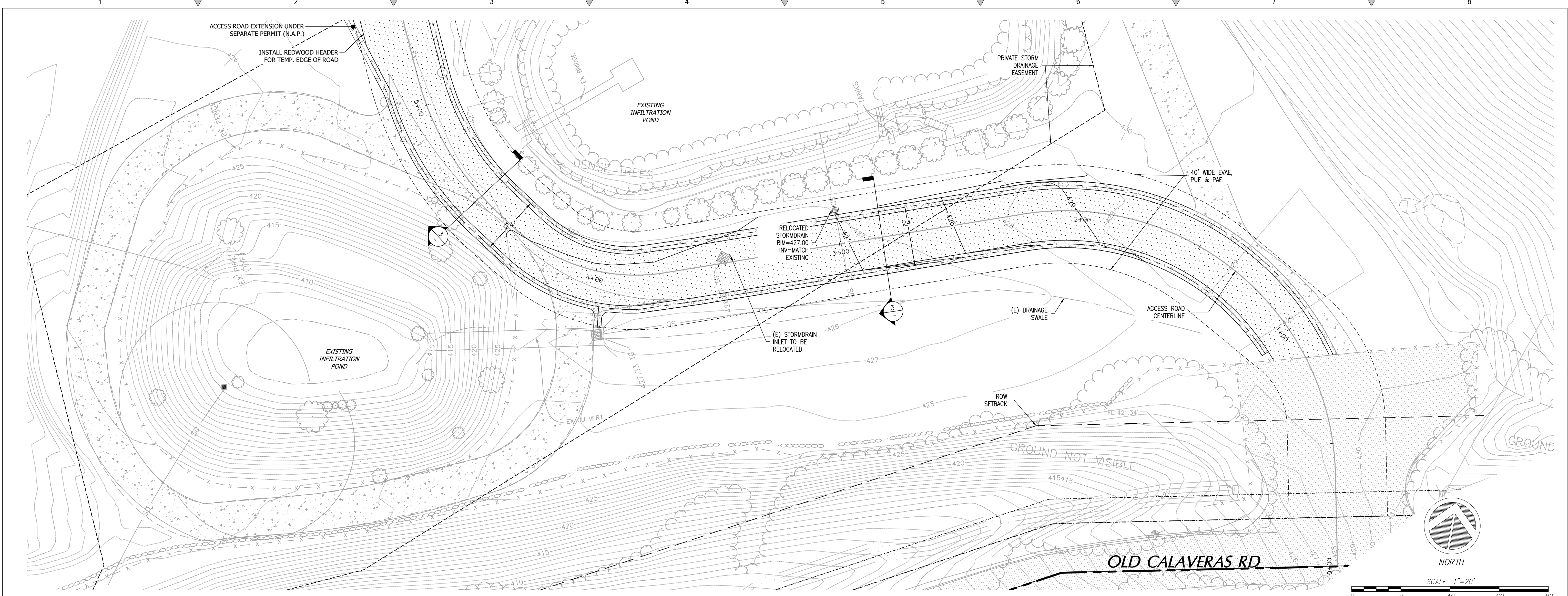
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

EXISTING SITE ACCESS

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

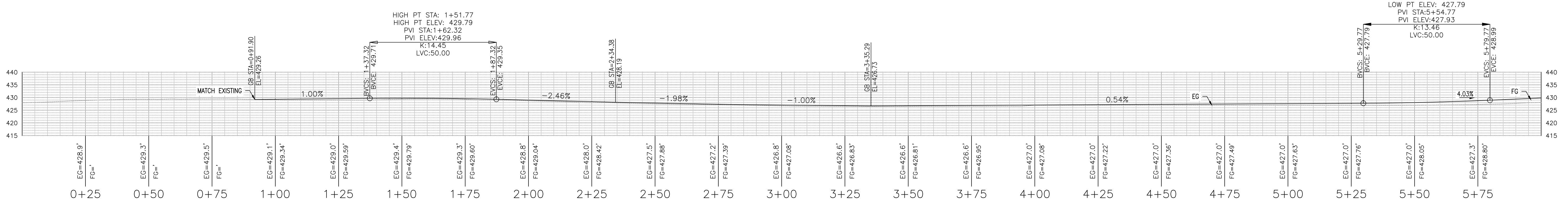
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 of 37 Sheets



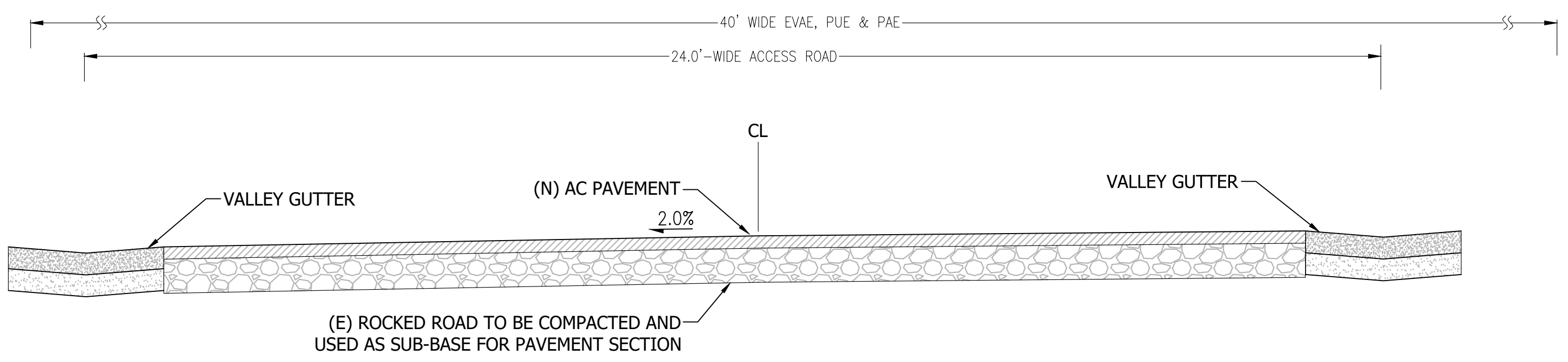
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Scale: 1:20



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

Scale: 1:20

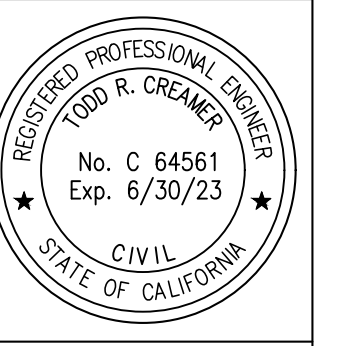


3 22'-WIDE ACCESS ROAD SECTION

Scale: 1"=2'

REVISIONS	BY
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

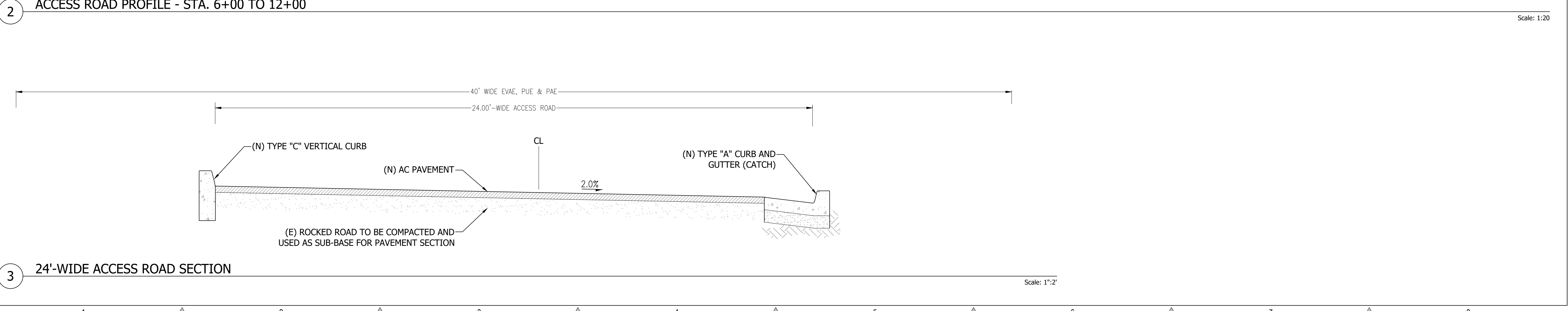
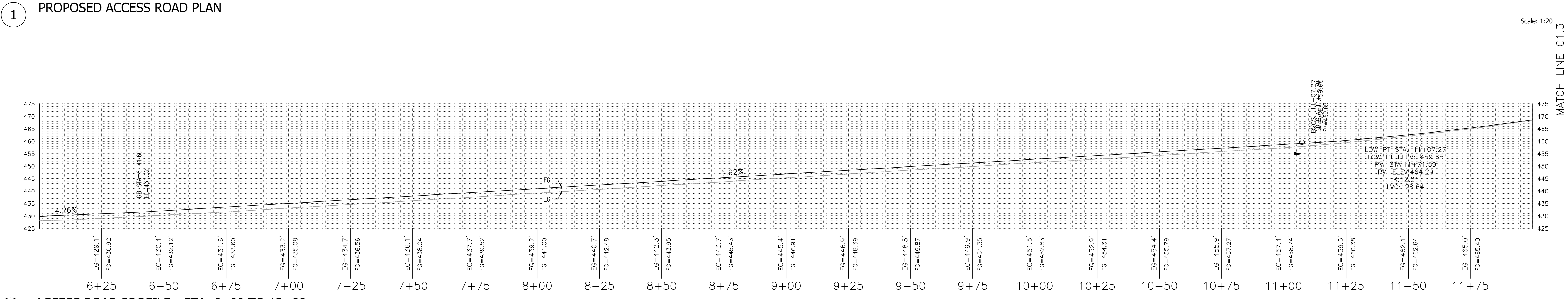
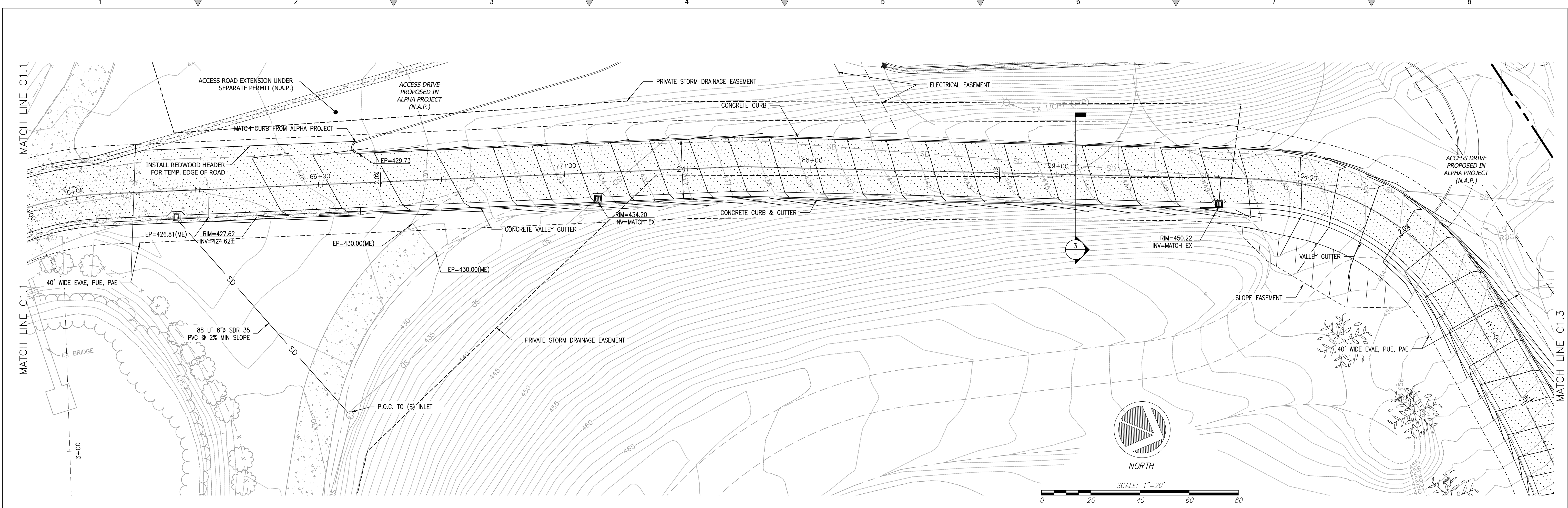
EXISTING ACCESS
ROAD PLAN & PROFILES



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

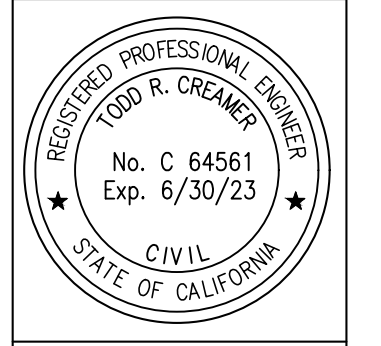
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	



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

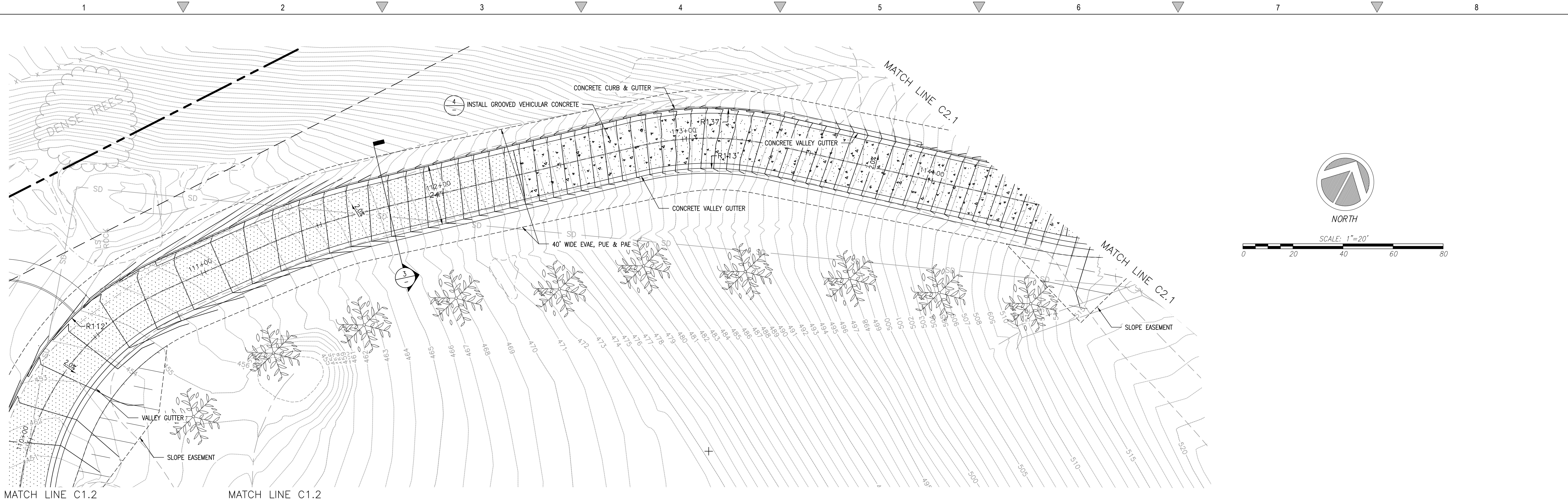
ACCESS ROAD PLAN & PROFILES



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

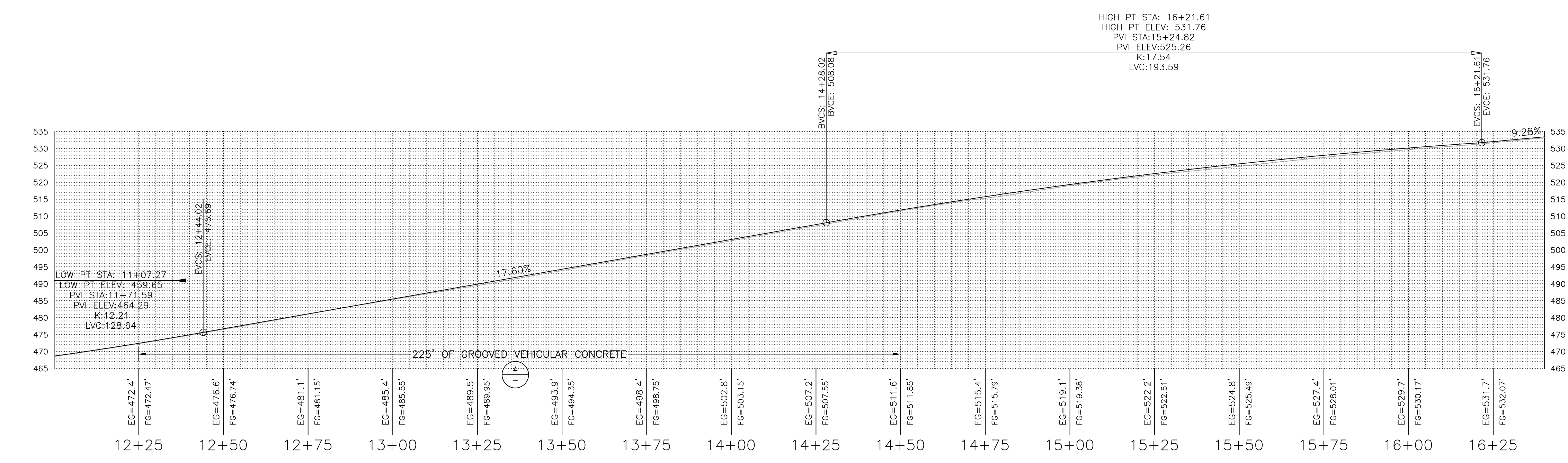
BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007

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Of	37 Sheets



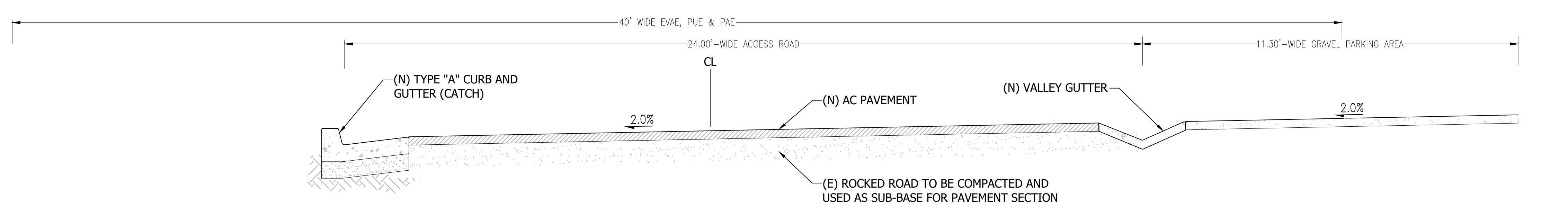
1 PROPOSED ACCESS ROAD PLAN

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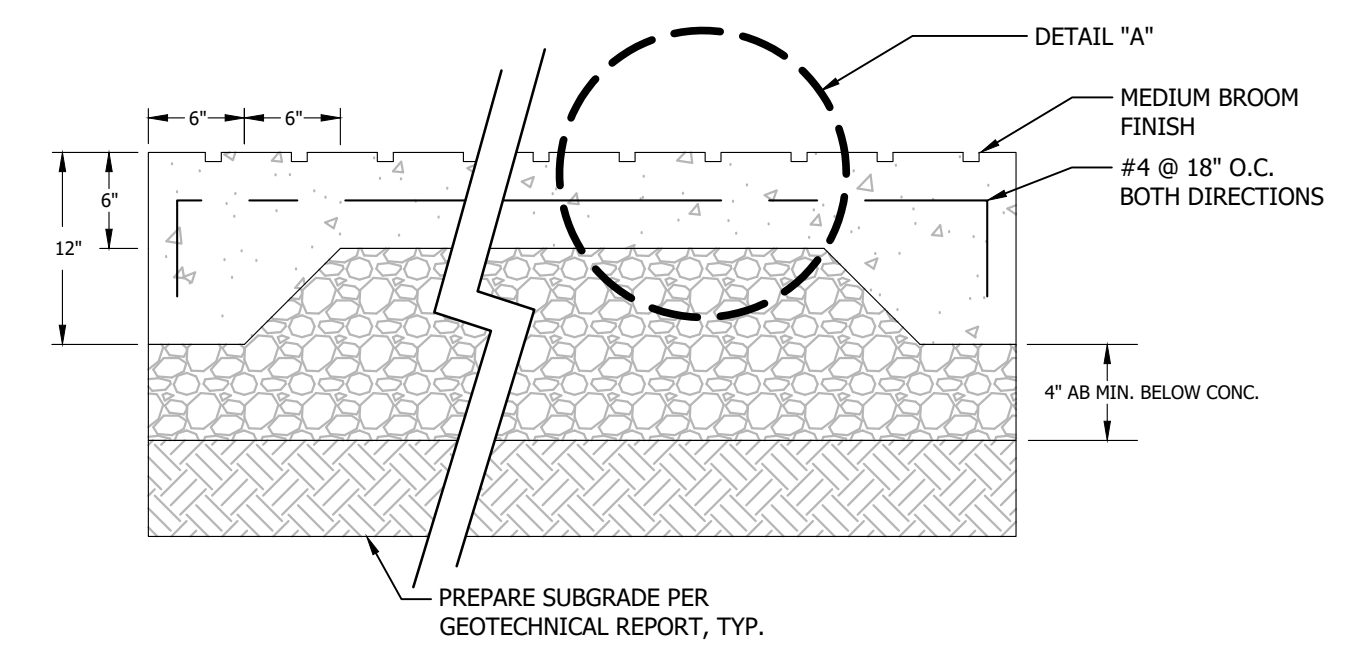
2 ACCESS ROAD PROFILE - STA. 12+00 TO 16+45

Scale: 1:20

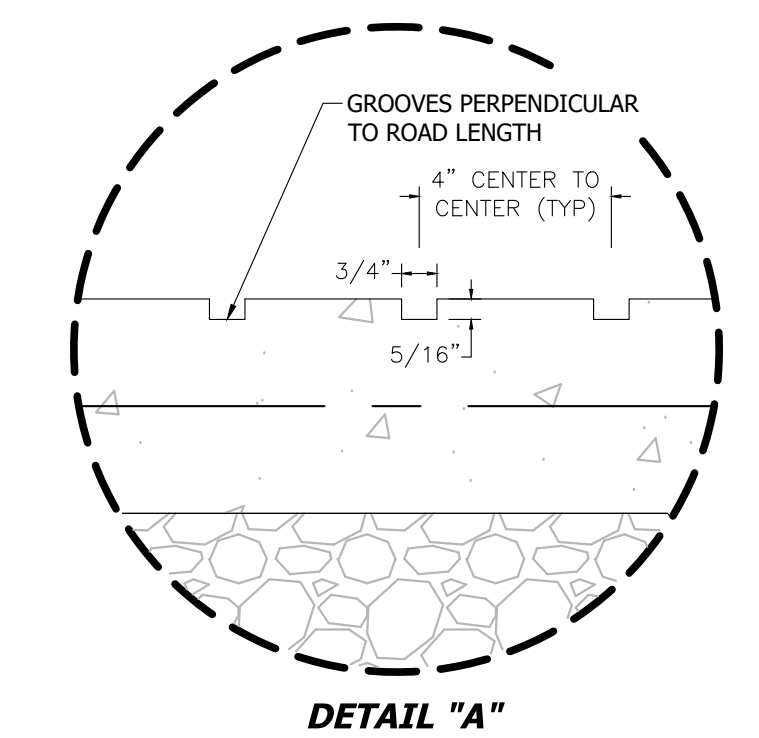


3 24'-WIDE ACCESS ROAD SECTION

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.

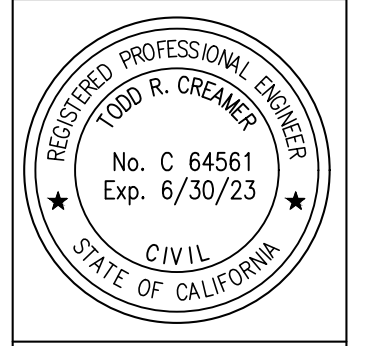


4 VEHICULAR CONCRETE SECTION W/ GROOVES

Scale: NTS

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

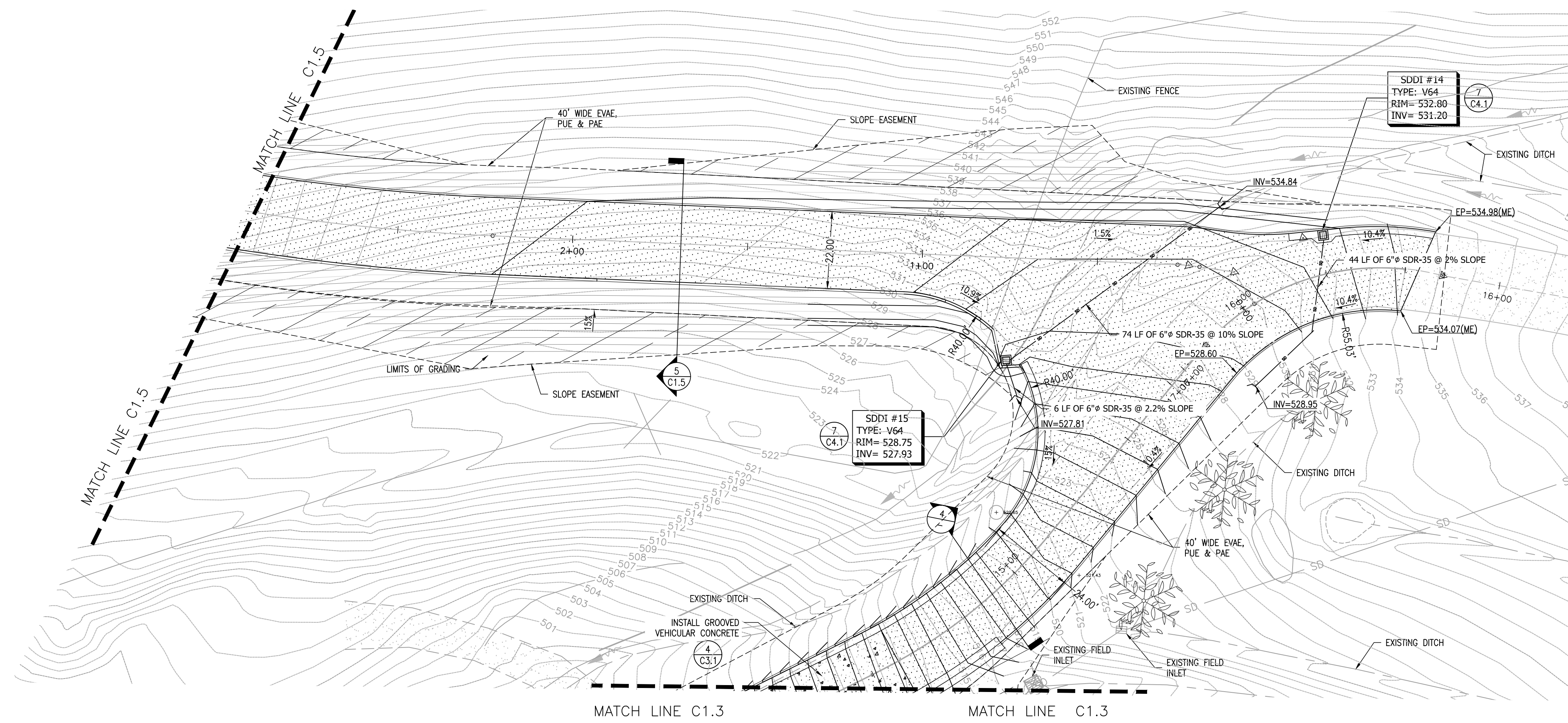
ACCESS ROAD PLAN & PROFILES



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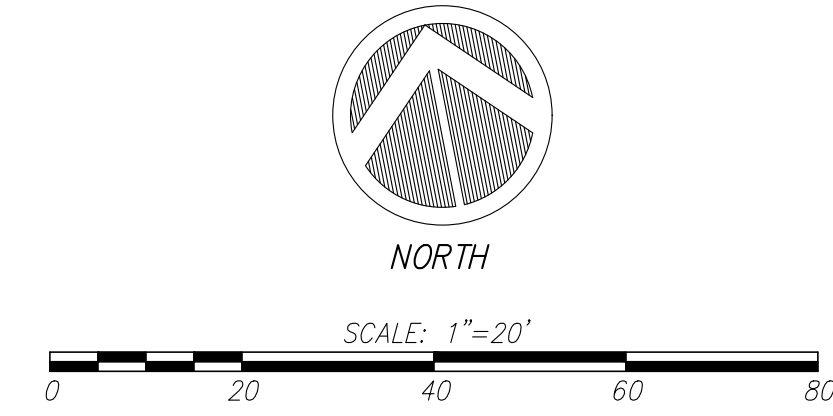
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.3
Of	37 Sheets

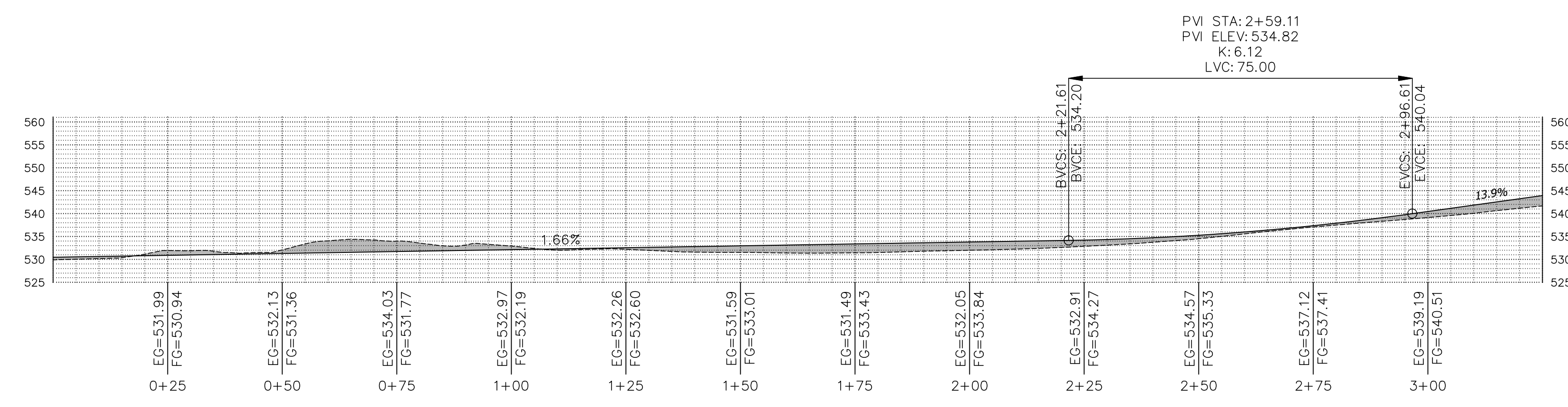


LEGEND

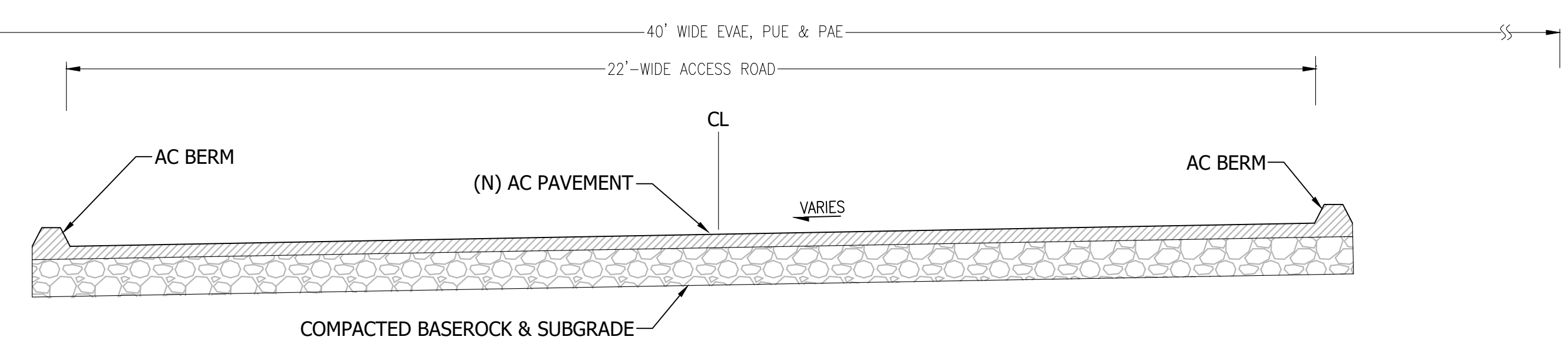
- (N) AC (C4.1)
- PROPERTY LINE
- SD (N) STORM DRAIN PIPE
- (E) TREE
- PROPOSED CONTOUR
- (N) RETAINING WALL
- DRAINAGE DIRECTIONAL ARROW



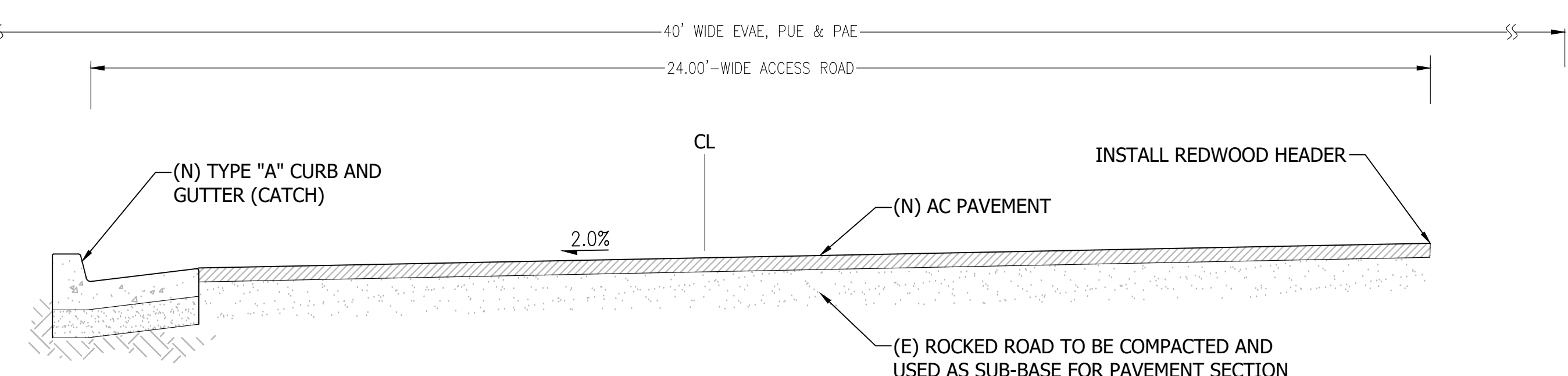
1 ENLARGED SITE PLAN - ACCESS ROAD



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



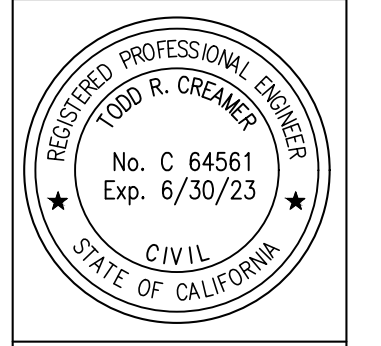
3 22'-WIDE ACCESS ROAD SECTION



4 24'-WIDE ACCESS ROAD SECTION

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

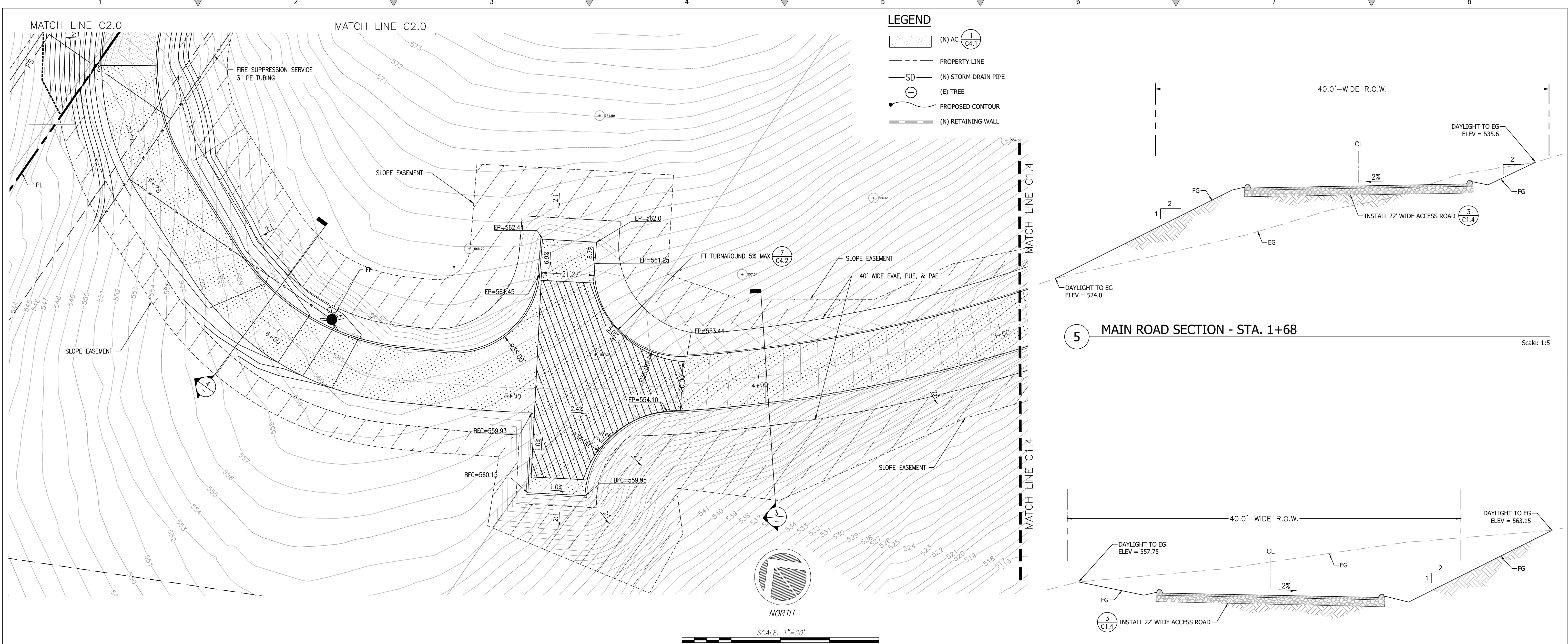
ENLARGED SITE PLAN



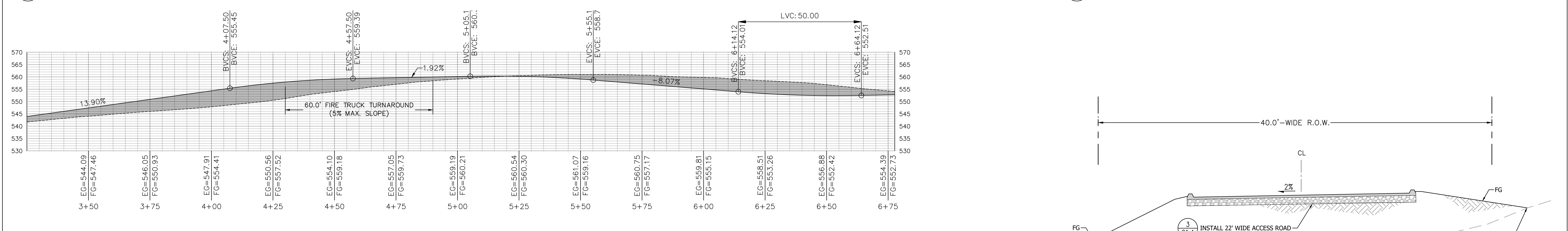
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 AUGUSTE COURT
 APN: 029-35-007

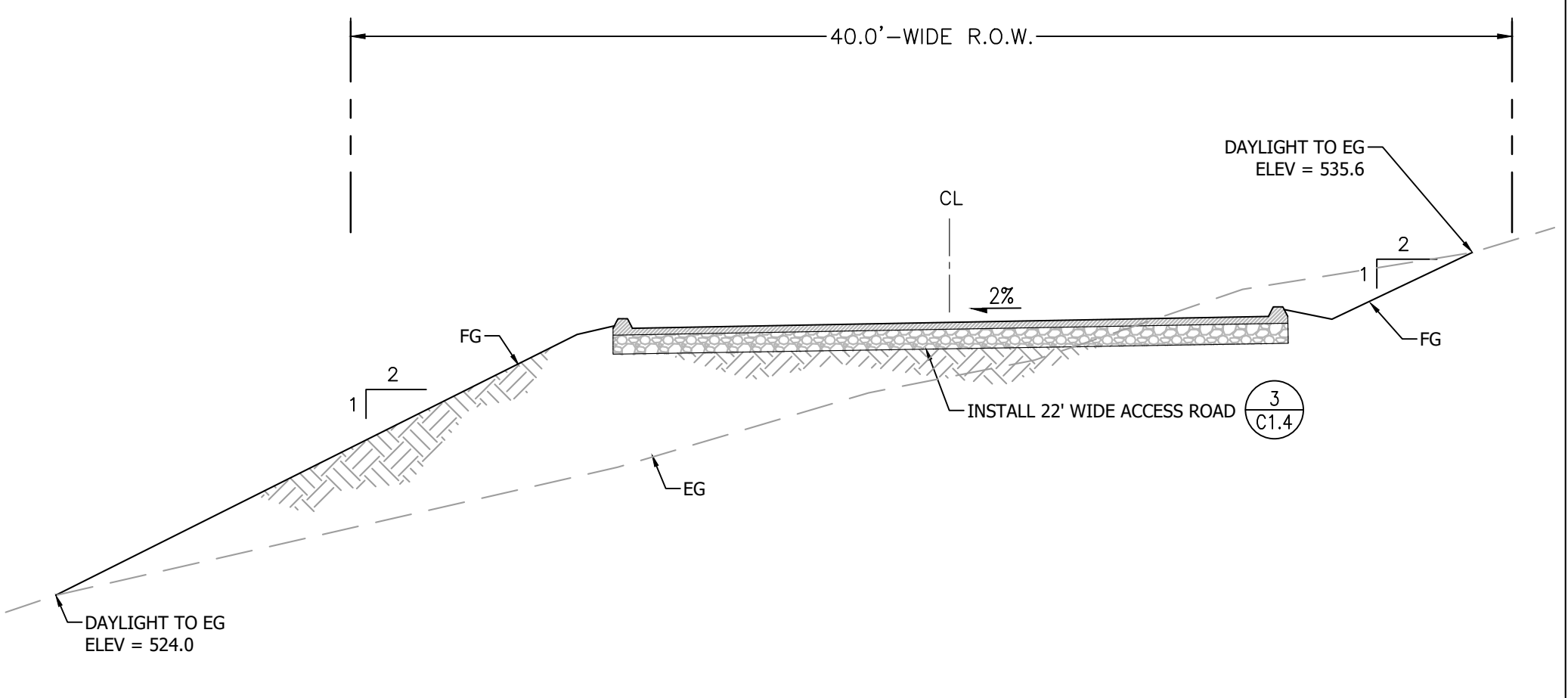
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 Sheet: C1.4
 Of 37 Sheets



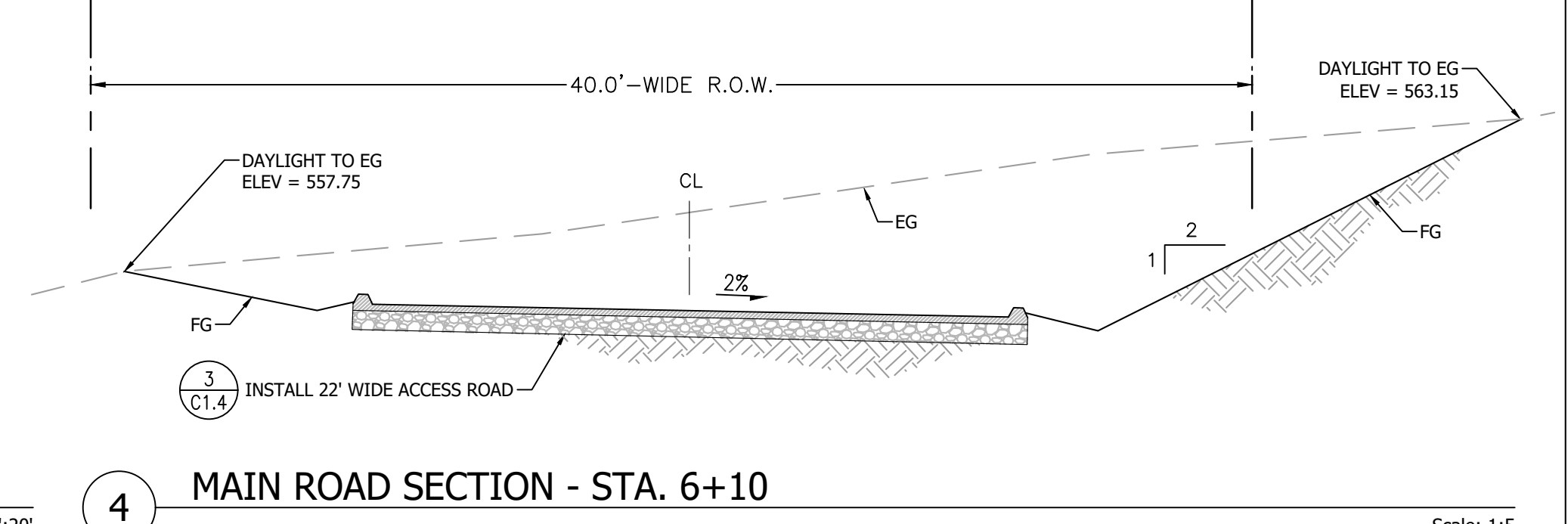
1 ENLARGED SITE PLAN - ACCESS ROAD



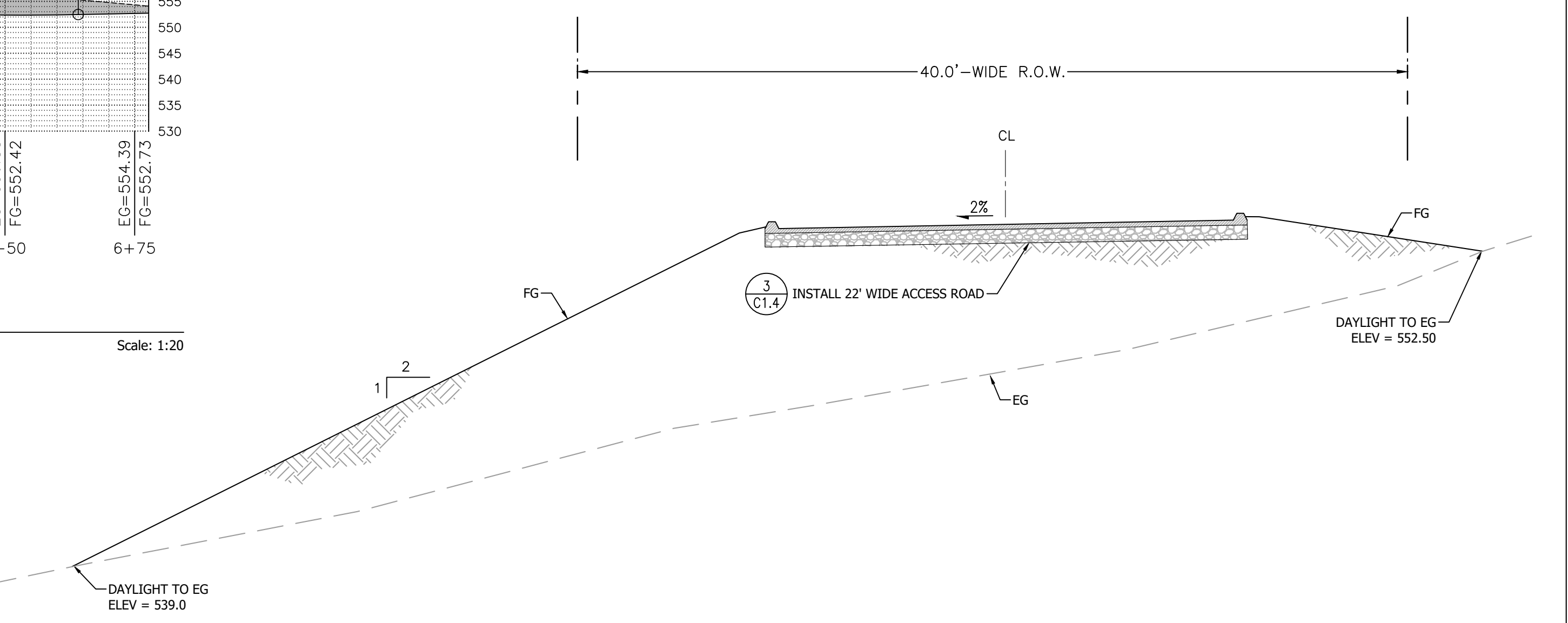
2 MAIN ROAD PROFILE - STA. 1+50 TO 6+78



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

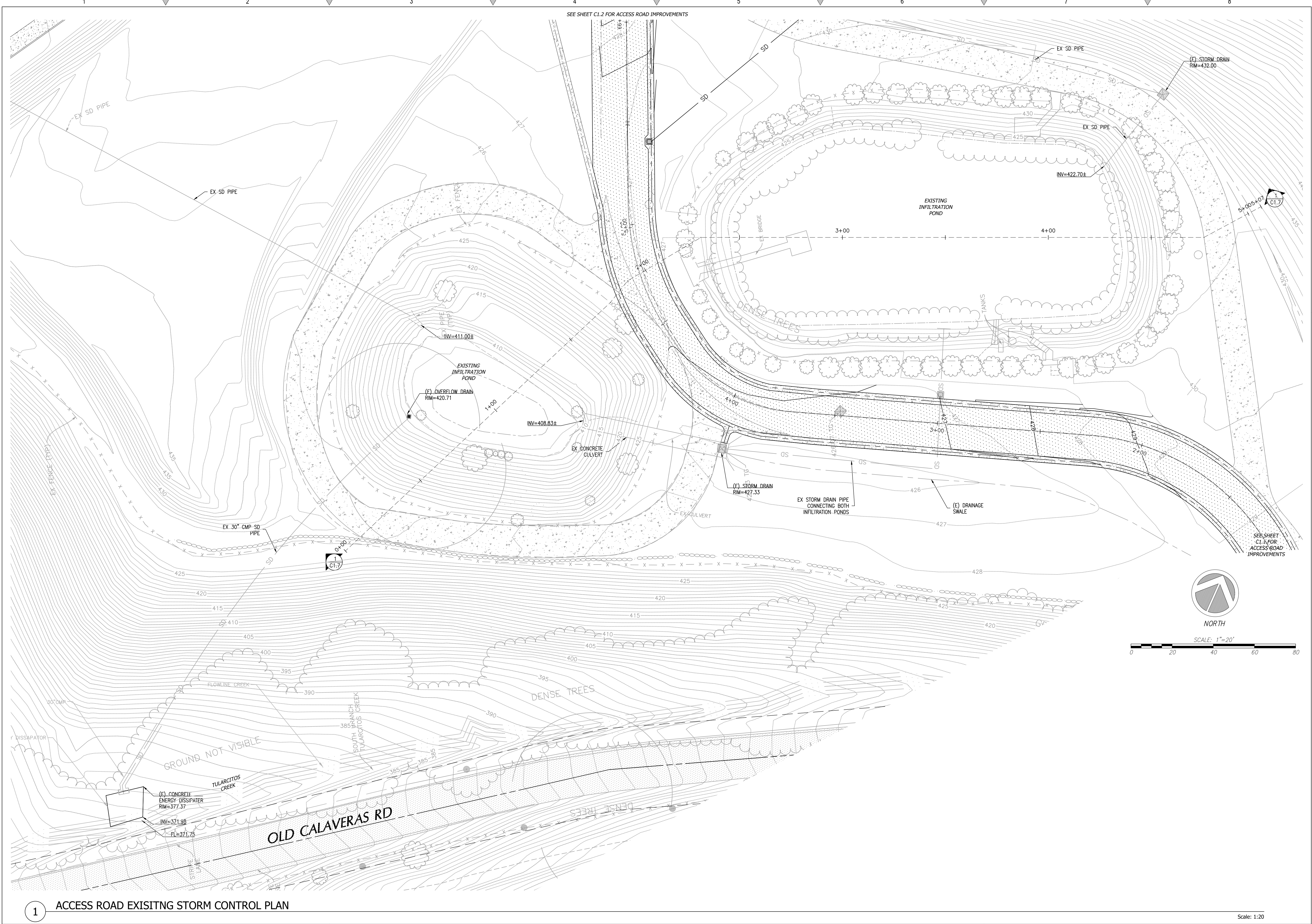
PROPOSED ACCESS PLAN AND PROFILE



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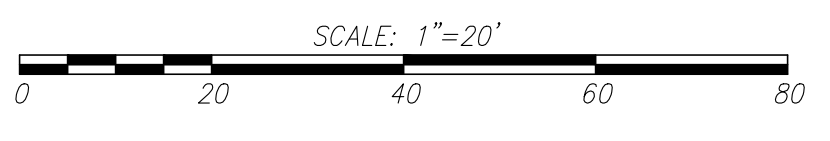
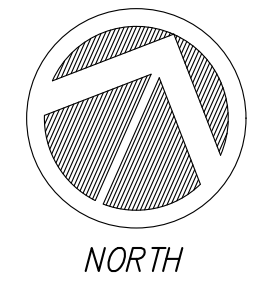
BARSANA RESIDENCE
AUGUSTE COURT
 APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
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Of	37 Sheets



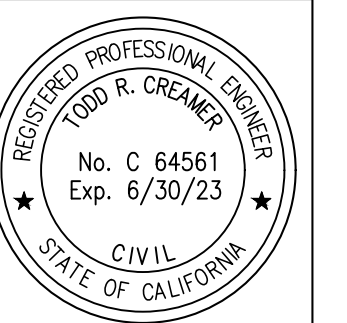
SEE SHEET C1.2 FOR ACCESS ROAD IMPROVEMENTS

SEE SHEET C1.1 FOR ACCESS ROAD IMPROVEMENTS



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



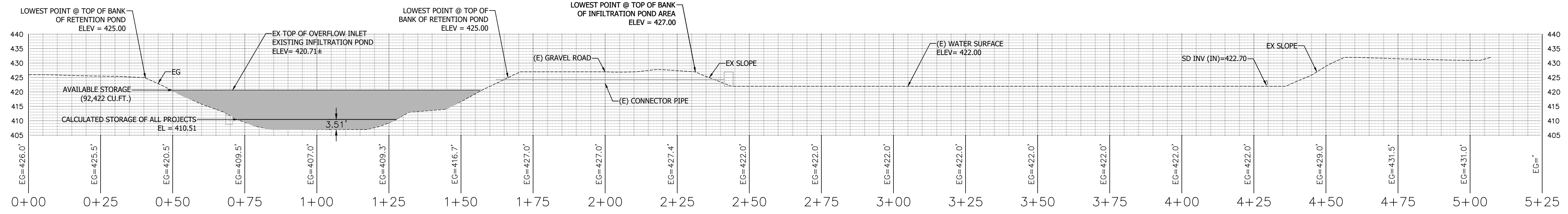
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BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.6
Of	37 Sheets

1 ACCESS ROAD EXISTING STORM CONTROL PLAN

Scale: 1:20



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	18,780	0.431	0.431

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

IMPERVIOUS AREA		
DESCRIPTION	SQ. FT.	ACRES
ROOF	738	0.0169
CONC.	485	0.0111
TOTAL	1223	0.0281

GOKULAM WATER TANK IMPROVEMENT PROJECT

DEV23-0115

IMPERVIOUS AREA		
DESCRIPTION	SQ. FT.	ACRES
WATER TANK	1998	0.0459
CONC.	699	0.0160
TOTAL	2697	0.0619

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	5803	0.1332
AC	37307	0.8565
CONC.	8728	0.2004
TOTAL	51838	1.1900

GOKULAM SMALL SCALE PERMANENT AGRICULTURAL EMPLOYEE HOUSING

NEW IMPERVIOUS AREA		
DESCRIPTION	AREA (SF)	ACRES
BUILDING & GARAGE	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

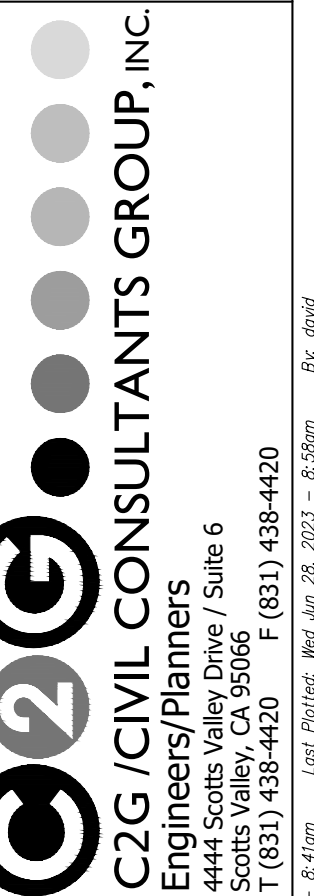
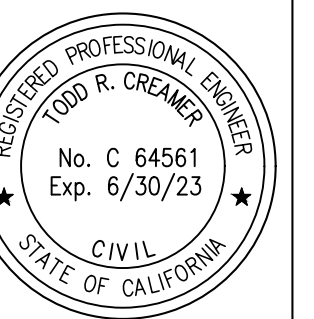
T (min)	100-Yr Depth (in)	Intensity (in/hr)	Peak Flow (CFS)	Volume In (CU.FT.)	Volume Out (CU.FT.)	Soil Infiltration Rate (cfs)	Storage Vol. (Cu. Ft.)
5	0.38	4.53	7.32	2582.047	147.399	0.491	2434.649
10	0.53	3.21	5.18	3657.784	294.797	0.491	3362.986
15	0.63	2.52	4.07	4310.813	442.196	0.491	3868.617
30	0.85	1.70	2.75	5813.094	884.392	0.491	4928.703
60	1.20	1.20	1.94	8228.209	1768.783	0.491	6459.425
120	1.82	0.91	1.47	12443.414	3537.567	0.491	8905.848
180	2.38	0.79	1.28	16255.439	5306.350	0.491	10949.089
360	3.81	0.63	1.03	26055.401	10612.700	0.491	15442.701
720	5.69	0.47	0.77	38911.910	21225.400	0.491	17686.510
1440	8.12	0.34	0.55	55526.516	42450.800	0.491	13075.716
2880	10.99	0.23	0.37	75185.806	84901.600	0.491	-9715.794
5760	12.85	0.13	0.22	87890.721	169803.200	0.491	-81912.479
Depth of new runoff in pond (ft)=							3.51

2 IMPERVIOUS AREA TABULATION OF CURRENT PROJECTS

2 STORM WATER CALCULATION PER SANTA CLARA DESIGN MANUAL

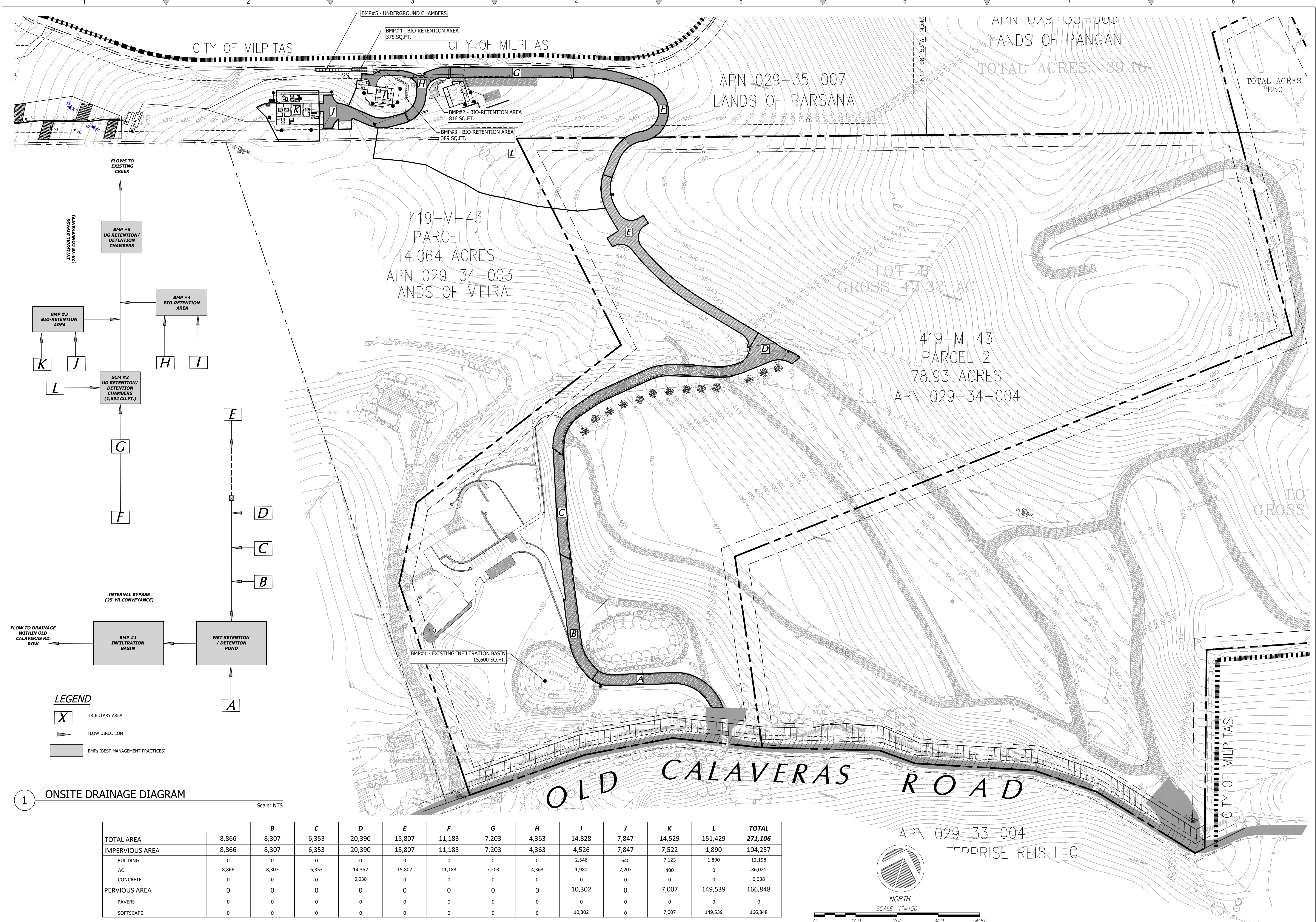
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

EXISTING INFILTRATION POND PLAN



BARSANA RESIDENCE
AUGUSTE COURT
APN: 029-35-007

Date:	08/06/21
Scale:	1" = 20'
Drawn:	DD
Job:	3007.02
Sheet:	C1.7
Of	37 Sheets



1 ONSITE DRAINAGE DIAGRAM

Scale: NTS

	B	C	D	E	F	G	H	I	J	K	L	TOTAL
TOTAL AREA	8,866	8,307	6,353	20,390	15,807	11,183	7,203	4,363	14,828	7,847	14,529	271,106
IMPERVIOUS AREA	8,866	8,307	6,353	20,390	15,807	11,183	7,203	4,363	4,526	7,847	7,522	104,257
BUILDING	0	0	0	0	0	0	0	0	2,546	640	7,123	12,198
AC	8,866	8,307	6,353	14,352	15,807	11,183	7,203	4,363	1,980	7,207	400	86,021
CONCRETE	0	0	0	6,038	0	0	0	0	0	0	0	6,038
PERVIOUS AREA	0	0	0	0	0	0	0	0	10,302	0	7,007	149,539
PAVERS	0	0	0	0	0	0	0	0	0	0	0	0
SOFTSCAPE	0	0	0	0	0	0	0	0	10,302	0	7,007	149,539

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

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

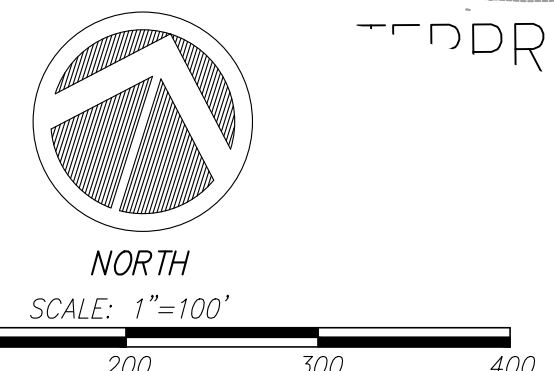


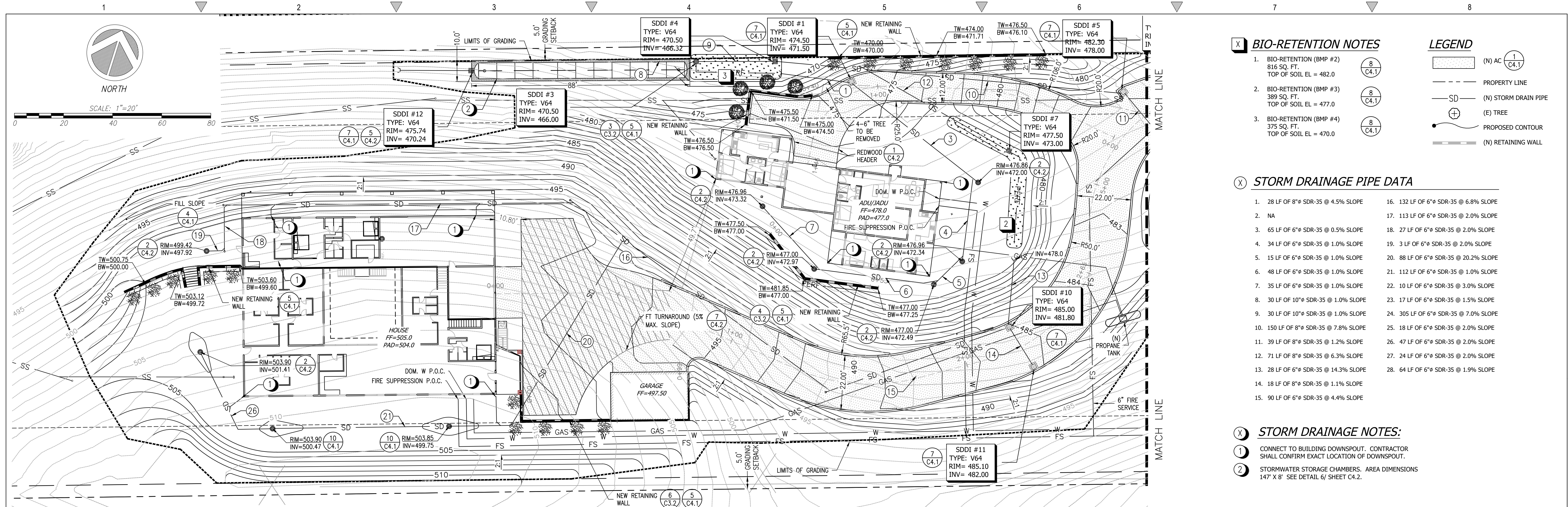
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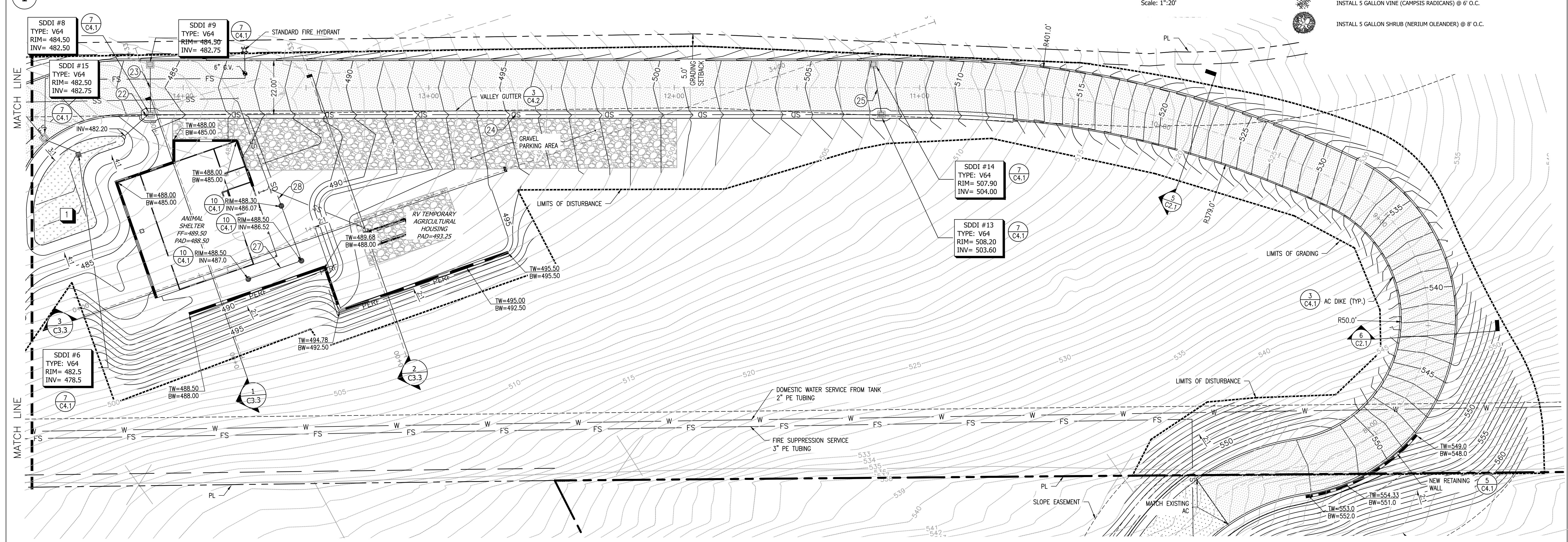
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 Scale: 1" = 100'
 Drawn: DD
 Job: 3007.02
 Sheet: **C1.8**
 of 37 Sheets

APN 029-33-004
 TRIDRISE RE18 LLC





1 ENLARGED SITE PLAN - SOUTH



2 ENLARGED SITE PLAN - NORTH

BIO-RETENTION NOTES

- BIO-RETENTION (BMP #2)
816 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
- (E) TREE
- PROPOSED CONTOUR
- (N) RETAINING WALL

STORM DRAINAGE PIPE DATA

- 28 LF OF 8" SDR-35 @ 4.5% SLOPE
- NA
- 65 LF OF 6" SDR-35 @ 0.5% 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
- 35 LF OF 6" SDR-35 @ 1.0% SLOPE
- 30 LF OF 10" SDR-35 @ 1.0% SLOPE
- 30 LF OF 10" SDR-35 @ 1.0% SLOPE
- 150 LF OF 8" SDR-35 @ 7.8% SLOPE
- 39 LF OF 8" SDR-35 @ 1.2% SLOPE
- 71 LF OF 8" SDR-35 @ 6.3% SLOPE
- 28 LF OF 6" SDR-35 @ 14.3% SLOPE
- 18 LF OF 8" SDR-35 @ 1.1% 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
- 47 LF OF 6" SDR-35 @ 2.0% SLOPE
- 24 LF OF 6" SDR-35 @ 2.0% SLOPE
- 64 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 147' X 8' SEE DETAIL 6/ SHEET C4.2.

PLANTING LEGEND (WALL SCREENING)

- INSTALL 5 GALLON VINE (CAMPSIS RADICANS) @ 6' O.C.
- INSTALL 5 GALLON SHRUB (NERIUM OLEANDER) @ 8' O.C.

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

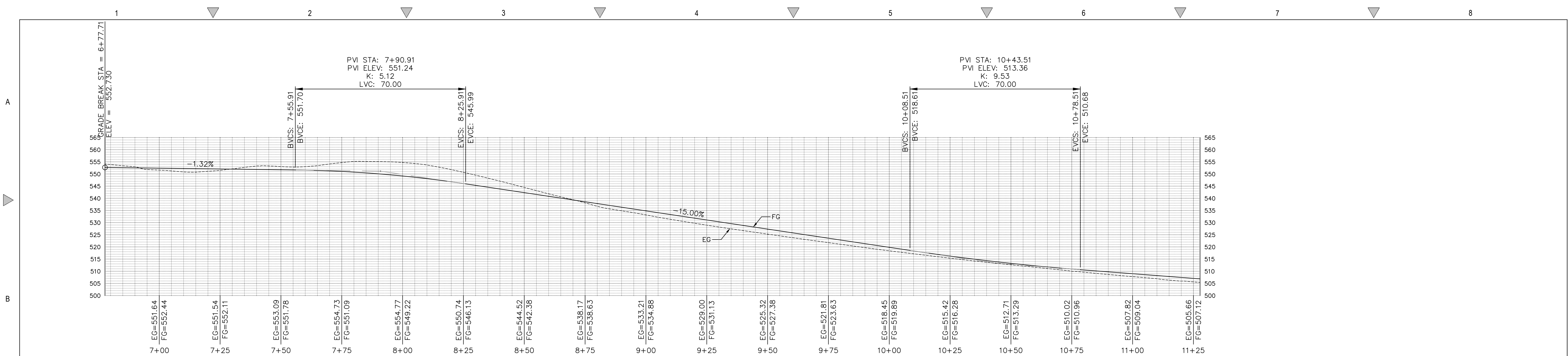
ENLARGED SITE PLAN



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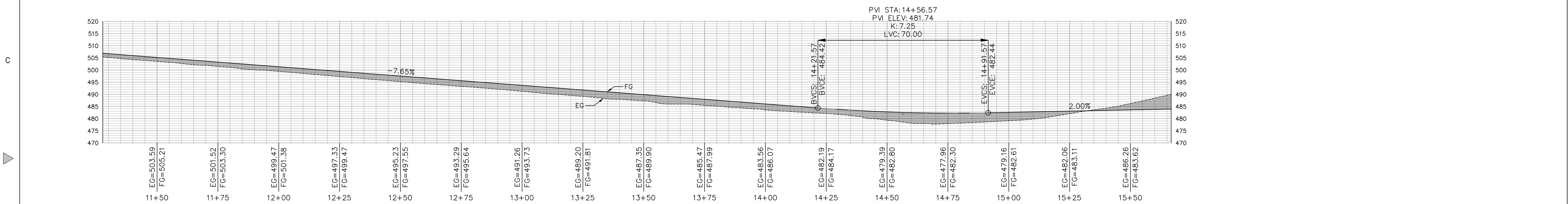
BARSANA RESIDENCE
AUGUSTE COURT
 APN: 029-35-007

Date: 08/06/21
 Scale: 1" = 20'
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 Job: 3007.02
 Sheet:



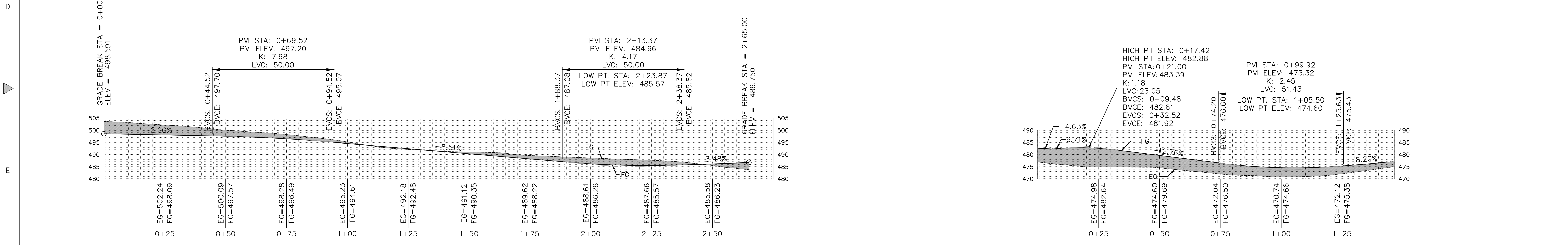
1 MAIN ROAD PROFILE - STA. 6+78 TO 11+28

Scale: 1:20



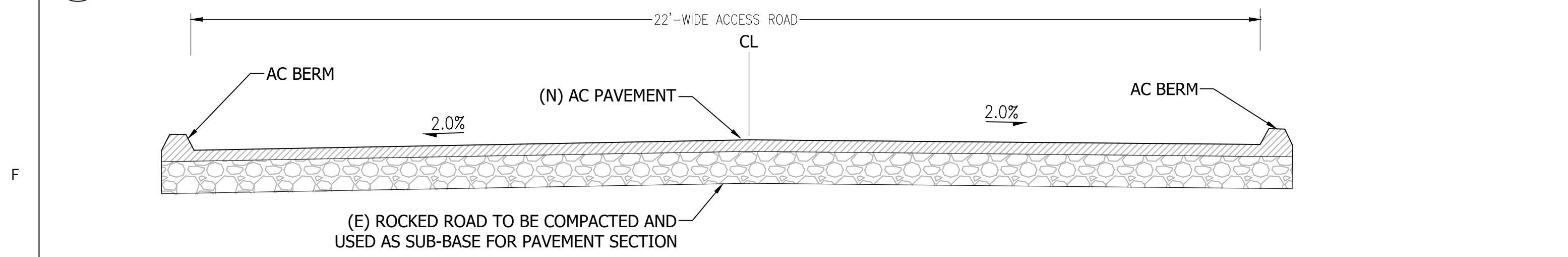
2 MAIN ROAD PROFILE - STA. 11+28 TO 15+67

Scale: 1:20



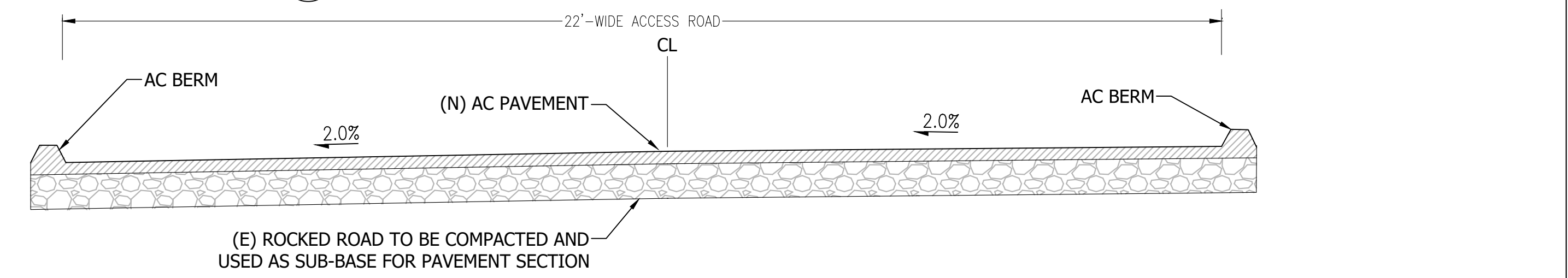
3 MAIN HOUSE DRIVEWAY PROFILE - STA. 0+00 TO 3+25

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



5 22'-WIDE ACCESS ROAD SECTION

Scale: 1":2'

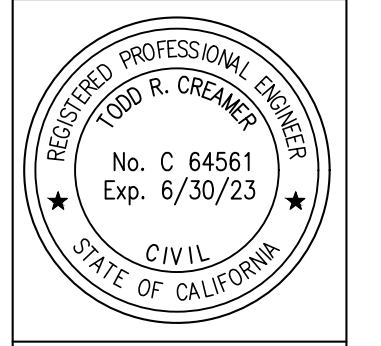


6 22'-WIDE ACCESS ROAD SECTION

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

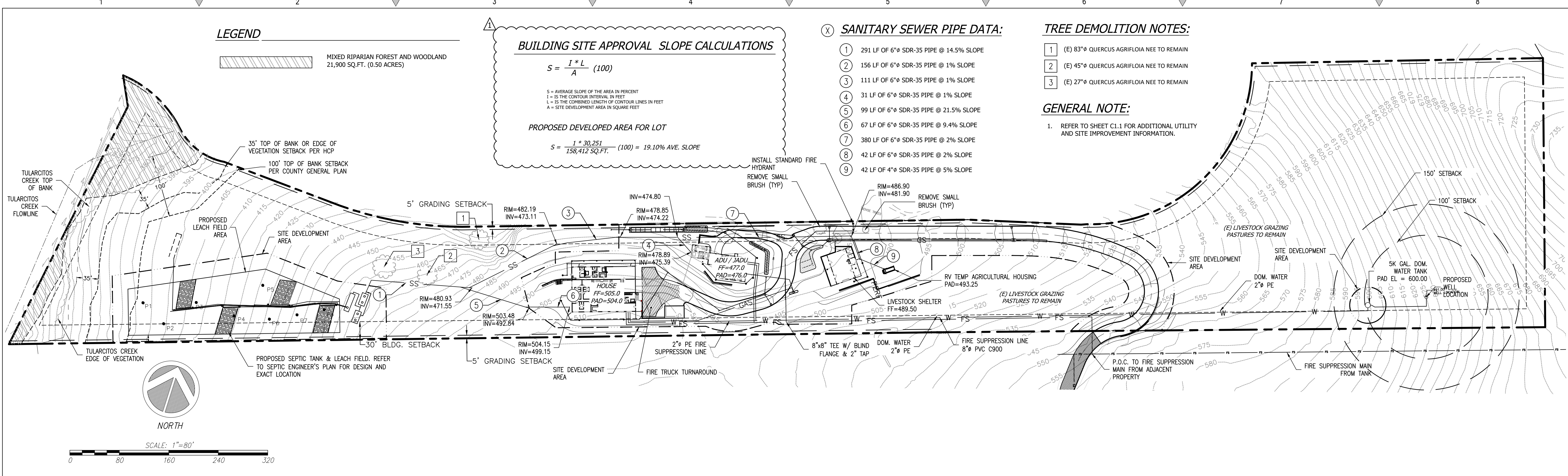
PROFILES / SECTIONS



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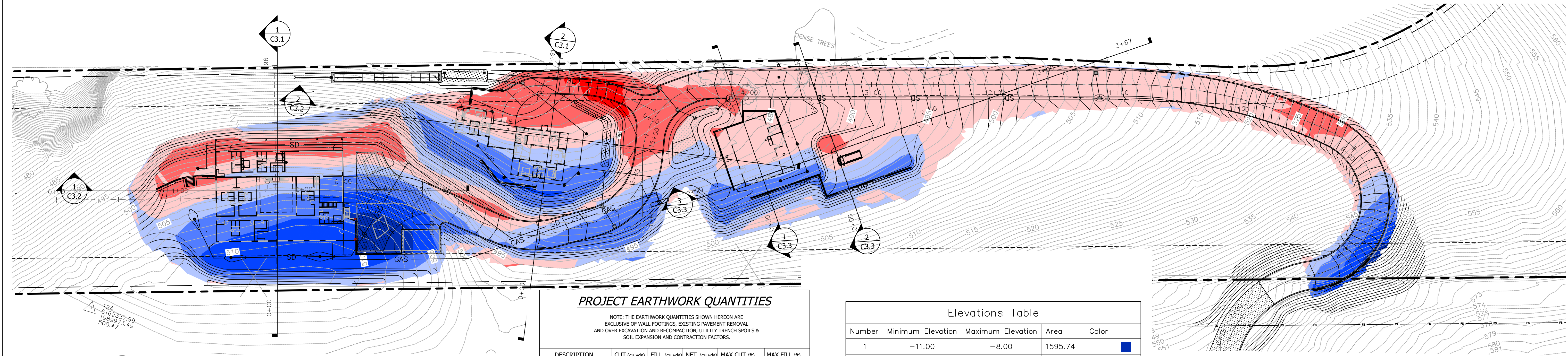
BARSANA RESIDENCE
AUGUSTE COURT
 APN: 029-35-007

Date: 08/06/21
 Scale: 1" = 20'
 Drawn: DD
 Job: 3007.02
 Sheet: C2.1
 of 37 Sheets



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 BUILDING	682	418	264(C)	8	6
ADU/JADU	401	323	78(C)	5	4
ROAD (APN 029-35-007)	2808	2786	22(C)	11	7
ROAD (APN 029-34-004)	1746	2219	473(F)	6	8
LIVESTOCK SHELTER & RV PARKING	445	142	303(C)	3	3
TOTAL	6082	5888	194(C)		

NET VOLUME = 194 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.

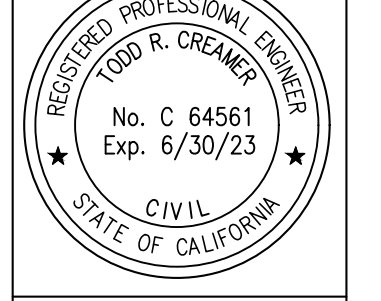
Elevations Table

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	Blue
5	0.00	2.00	40126.60	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

NO.	DESCRIPTION	BY	DATE
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	

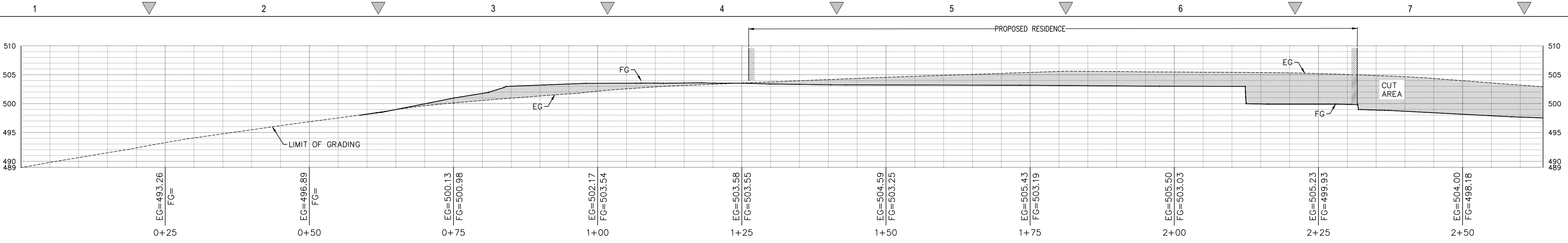
OVERALL SITE PLAN & CUT/FILL ANALYSIS



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 4400 Scotts Valley, CA 95066
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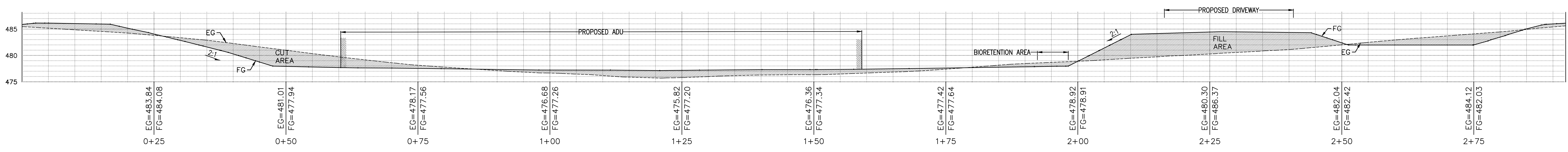
BARSANA RESIDENCE
 AUGUSTE COURT
 APN: 029-35-007

Date: 08/06/21
 Scale: AS SHOWN
 Drawn: DD
 Job: 3007.02
 Sheet: **C3.0**
 of 37 Sheets



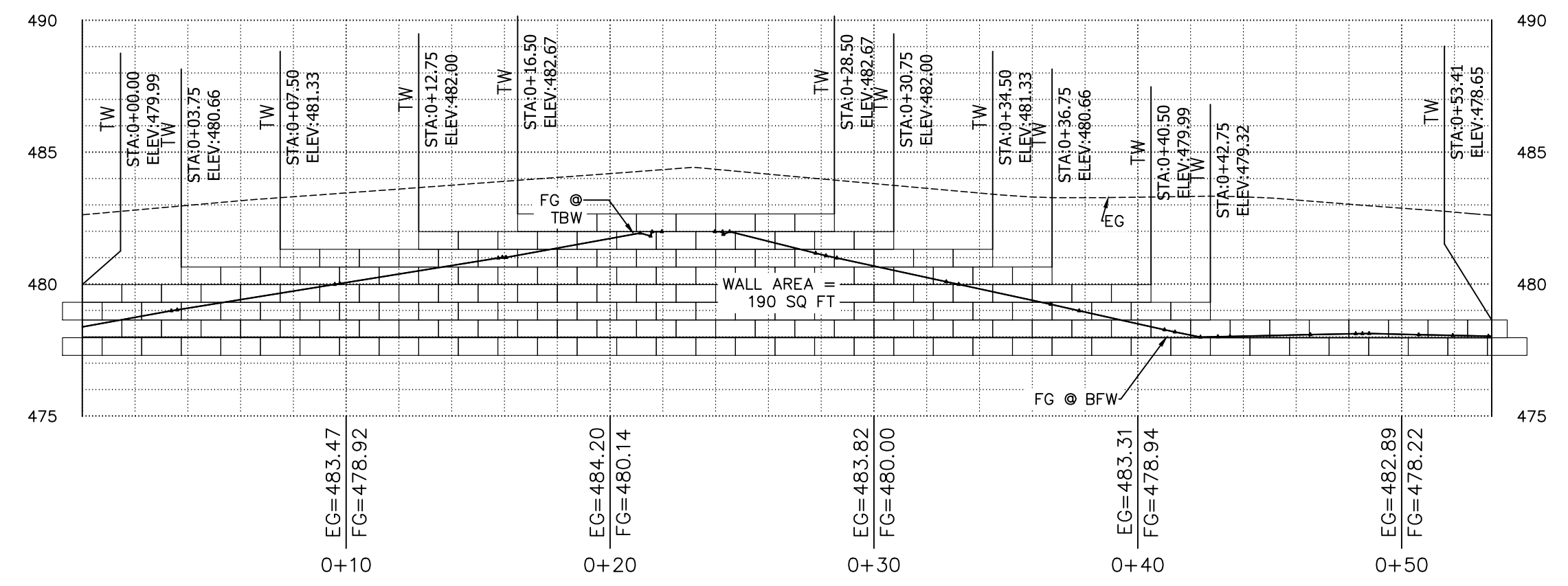
1 MAIN HOUSE CROSS SECTION

Scale: 1:10



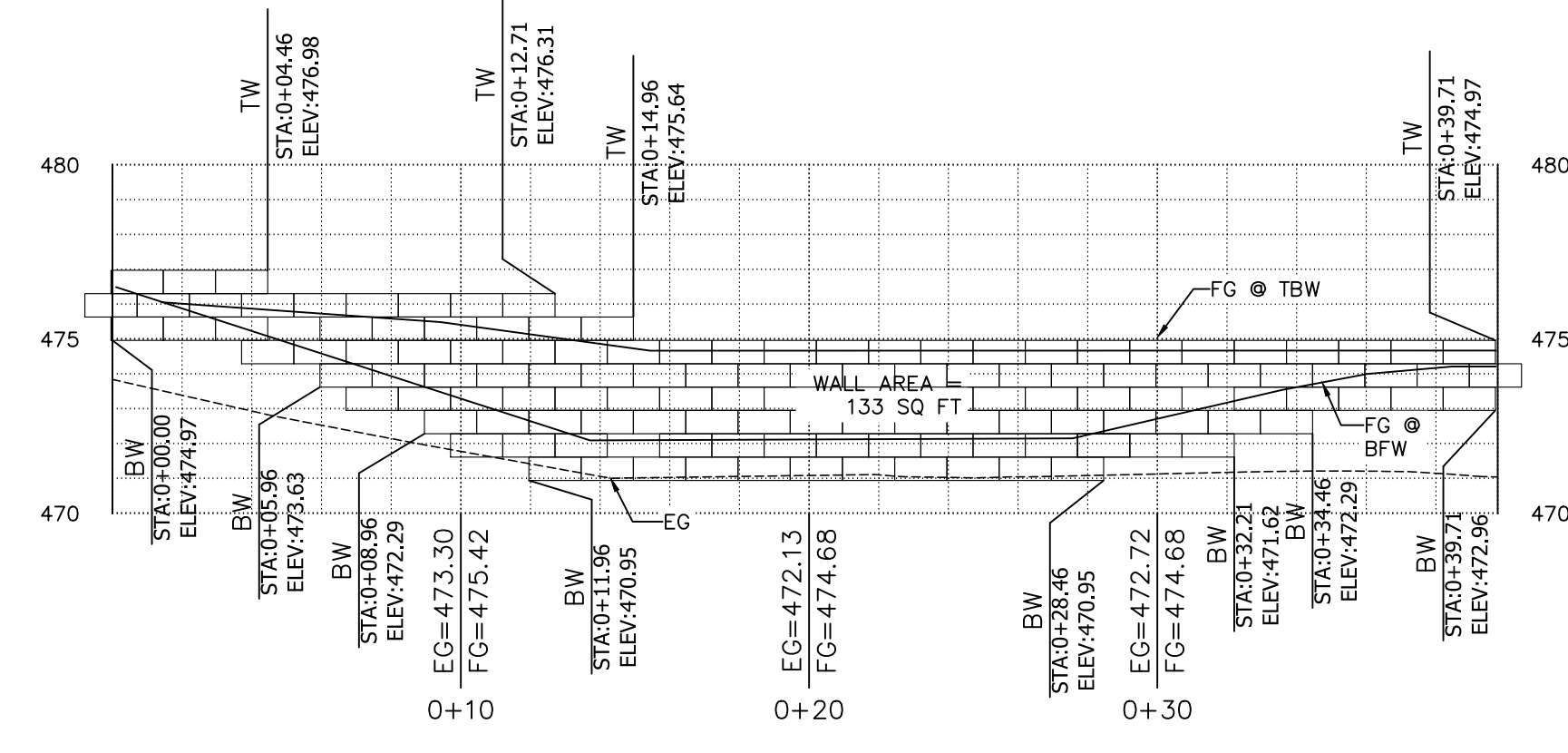
2 ADU HOUSE CROSS SECTION

Scale: 1:10



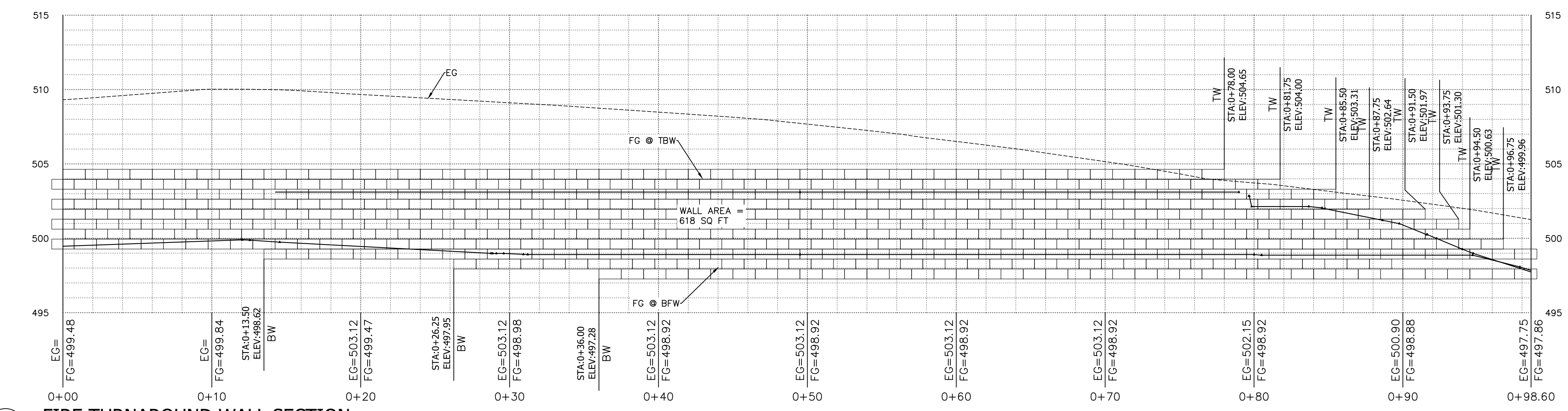
3 ADU WALL SECTION @ SIDEYARD

Scale: 1:5



4 ADU WALL SECTION @ DRIVEWAY

Scale: 1:5



5 FIRE TURNAROUND WALL SECTION

Scale: 1:5

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

CUT/FILL SECTIONS

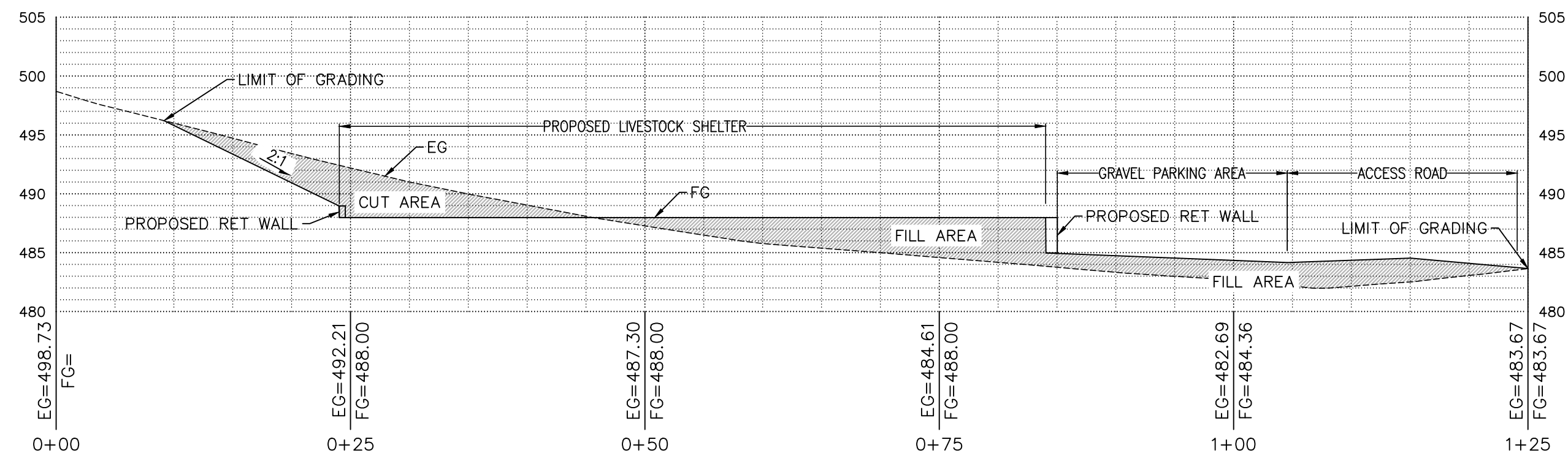
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 Engineers/Planners
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 Scotts Valley, CA 95066
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 AUGUSTE COURT
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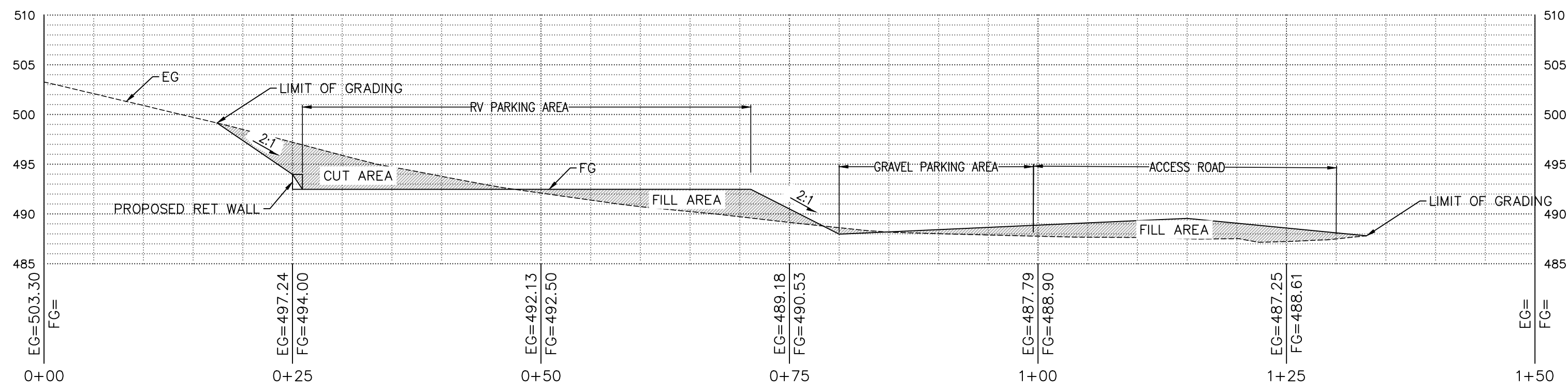
1 2 3 4 5 6 7 8

A
B
C
D
E
F



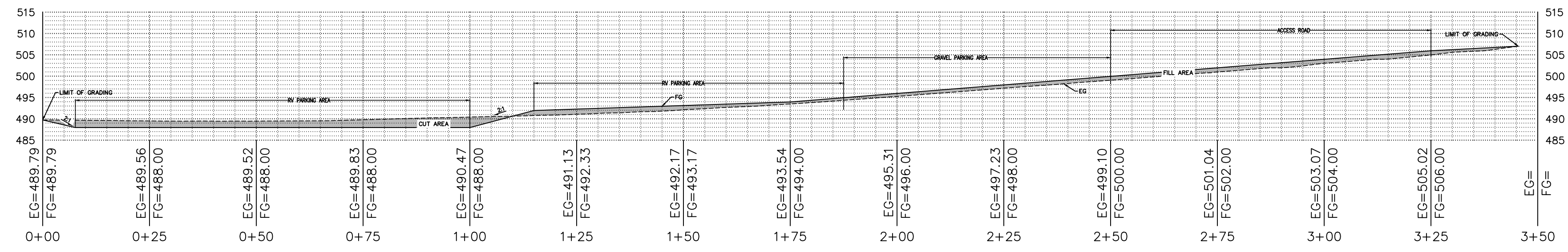
1 LIVESTOCK SHELTER CROSS SECTION

Scale: 1"=10'



2 RV PARKING AREA CROSS SECTION

Scale: 1"=10'

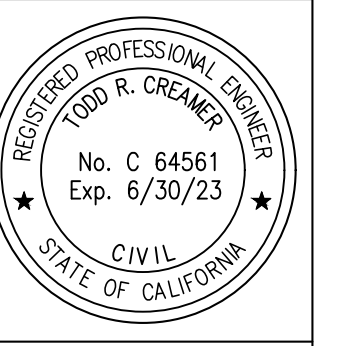


2 LIVESTOCK SHELTER AND RV PARKING AREA CROSS SECTION

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

CUT/FILL SECTIONS

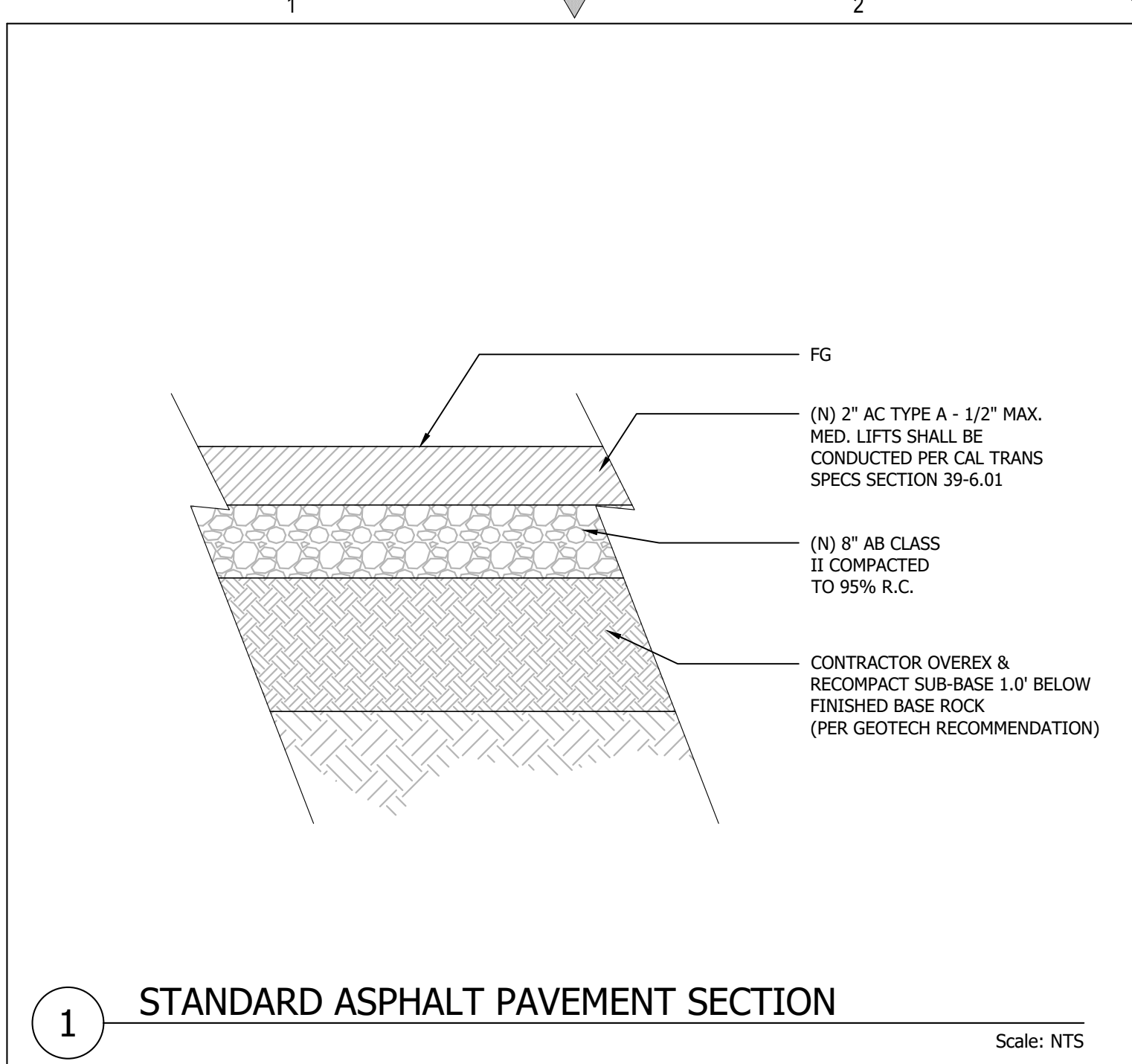


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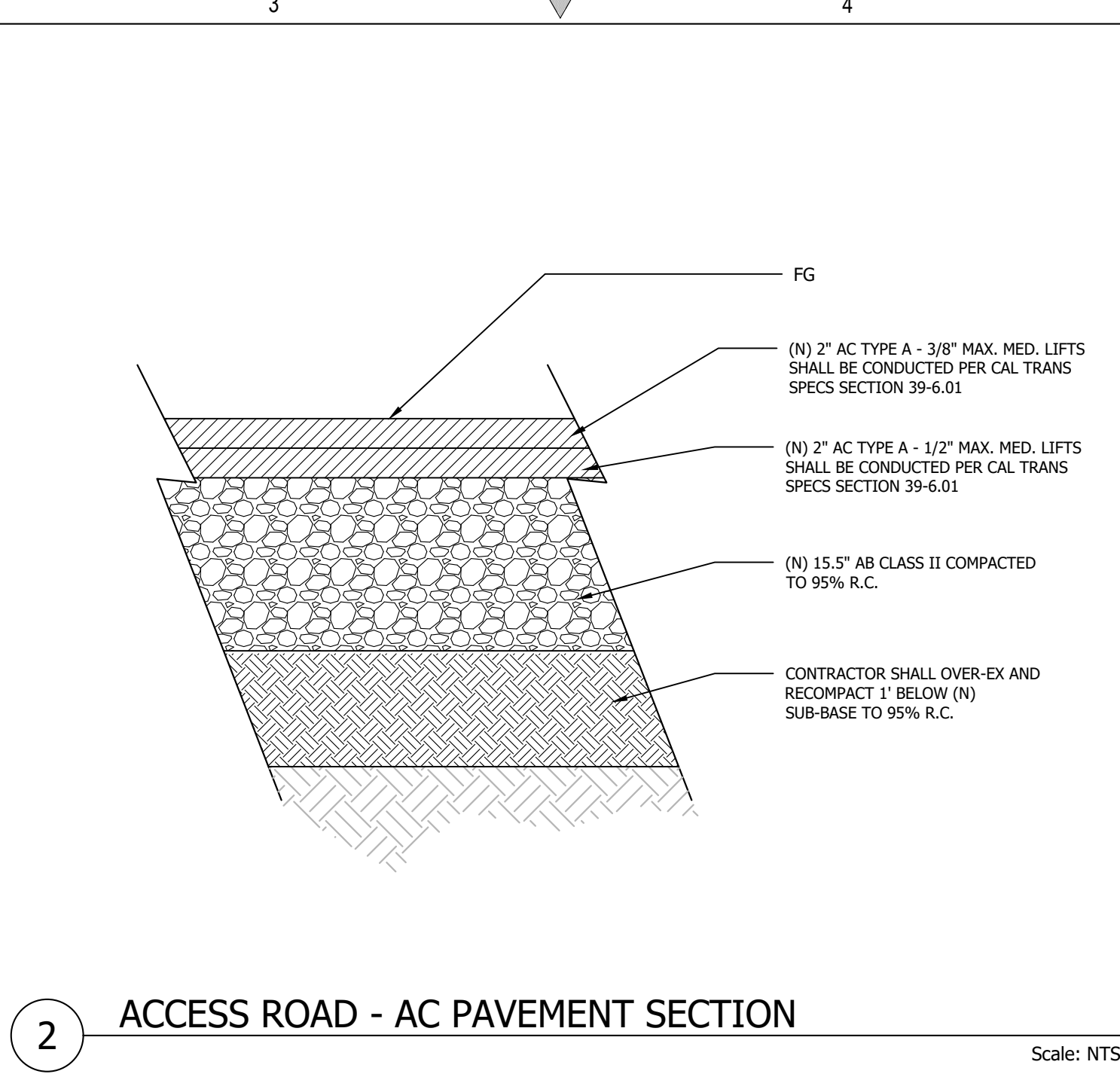
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 AUGUSTE COURT
 APN: 029-35-007

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Of	37 Sheets

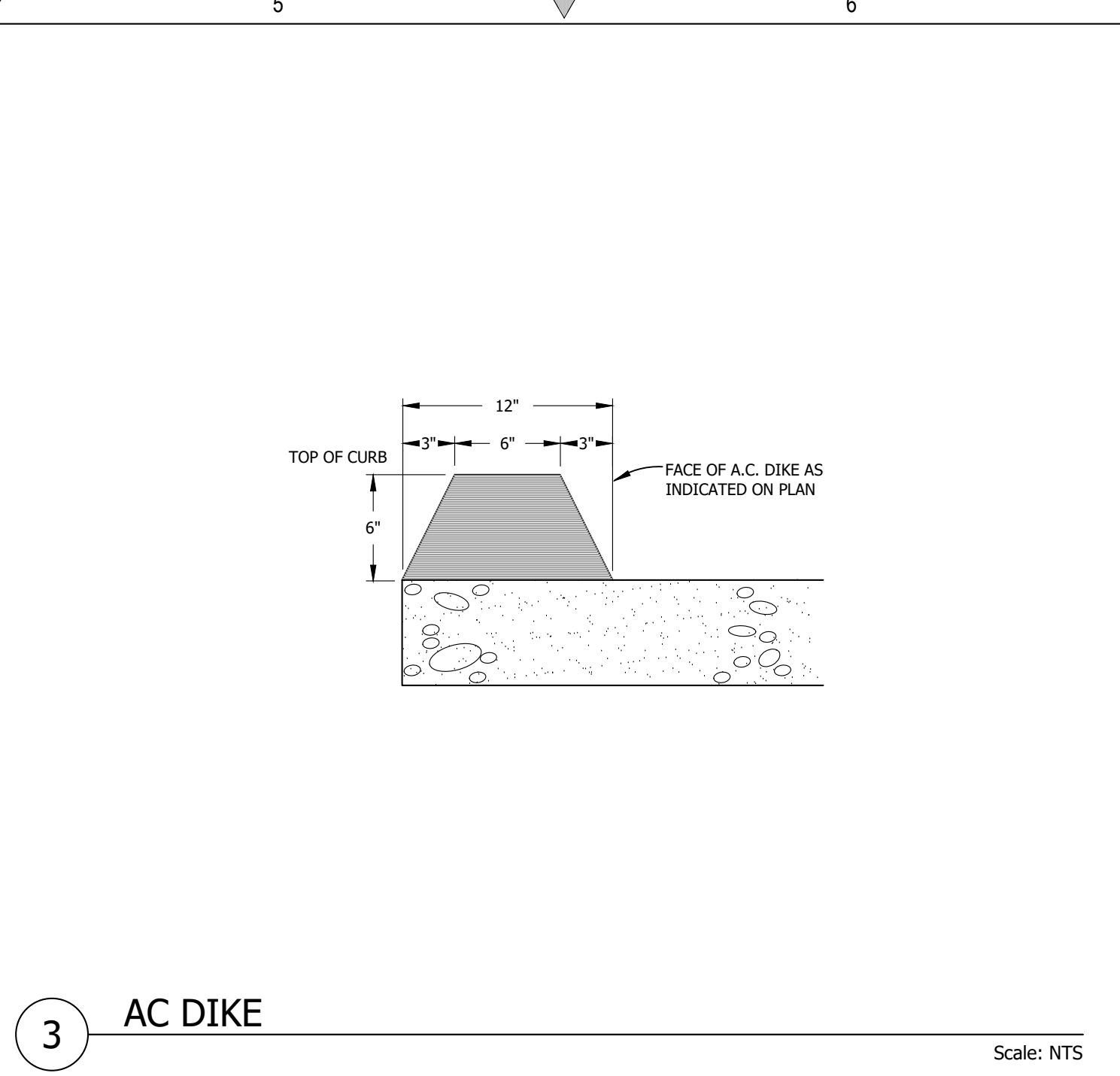
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 Last Saved: Wed Mar 22, 2023 - 3:07pm
 Last Printed: Wed Jun 08, 2023 - 9:02am
 By: dml



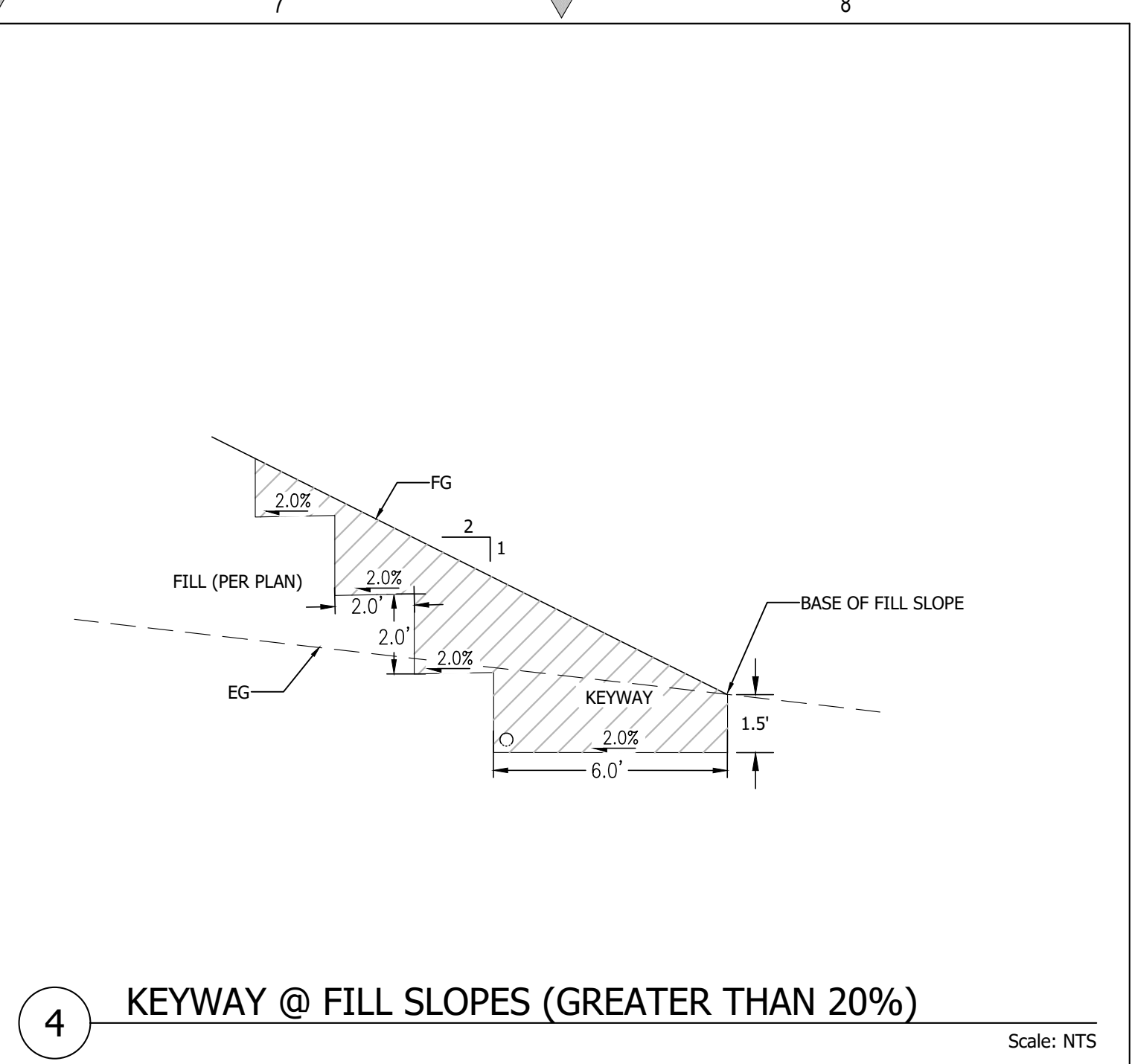
1 STANDARD ASPHALT PAVEMENT SECTION
Scale: NTS



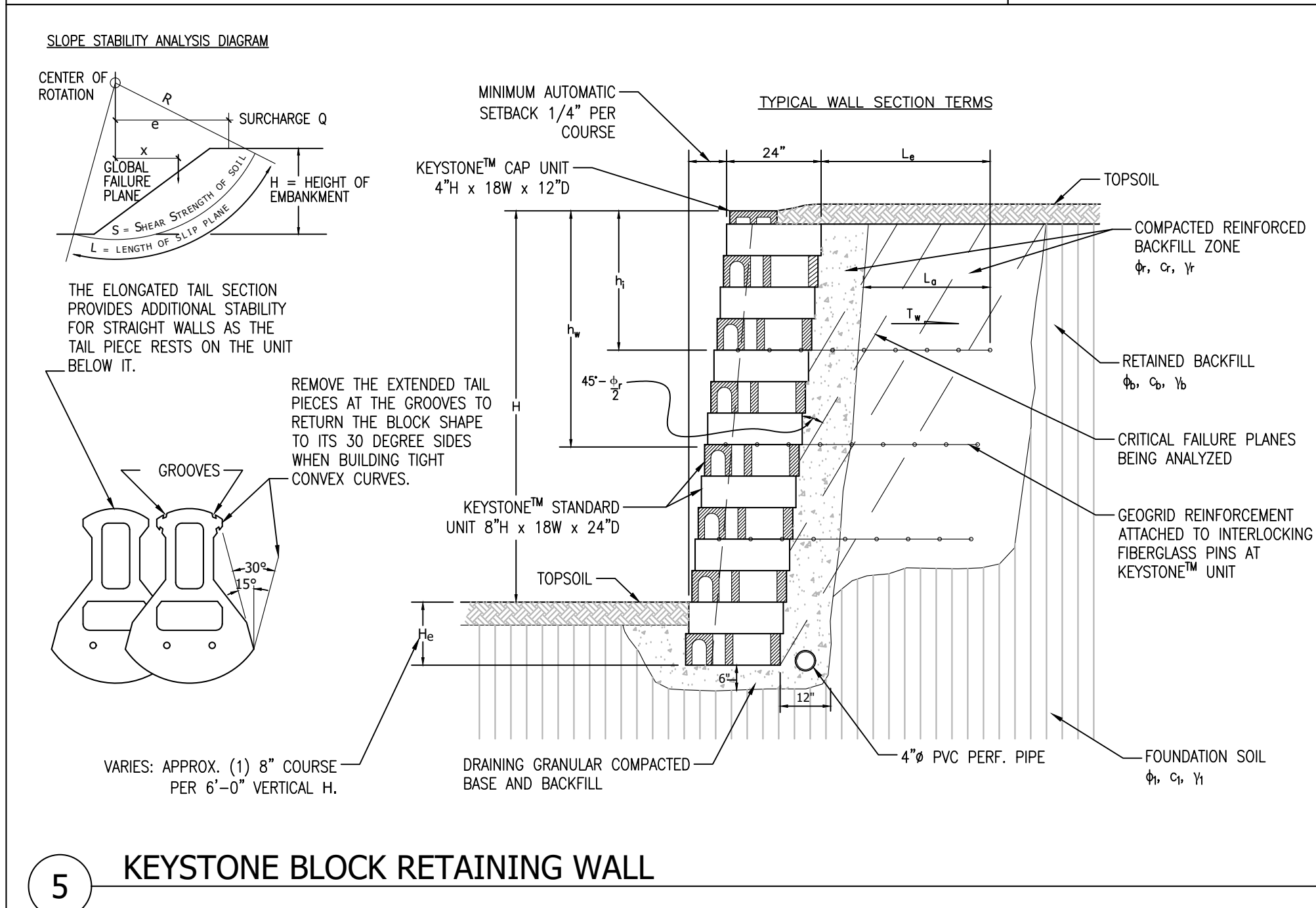
2 ACCESS ROAD - AC PAVEMENT SECTION
Scale: NTS



3 AC DIKE
Scale: NTS



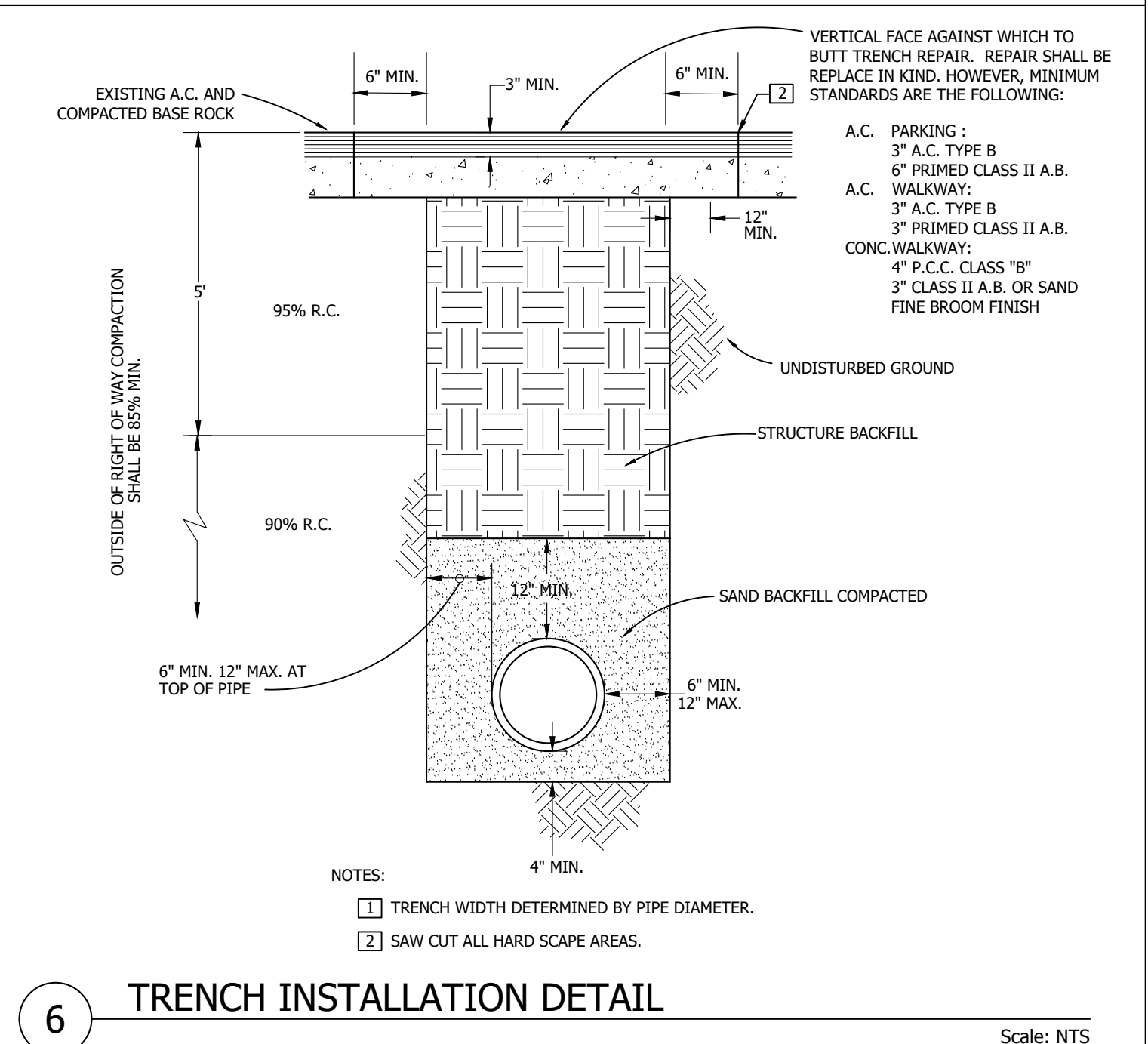
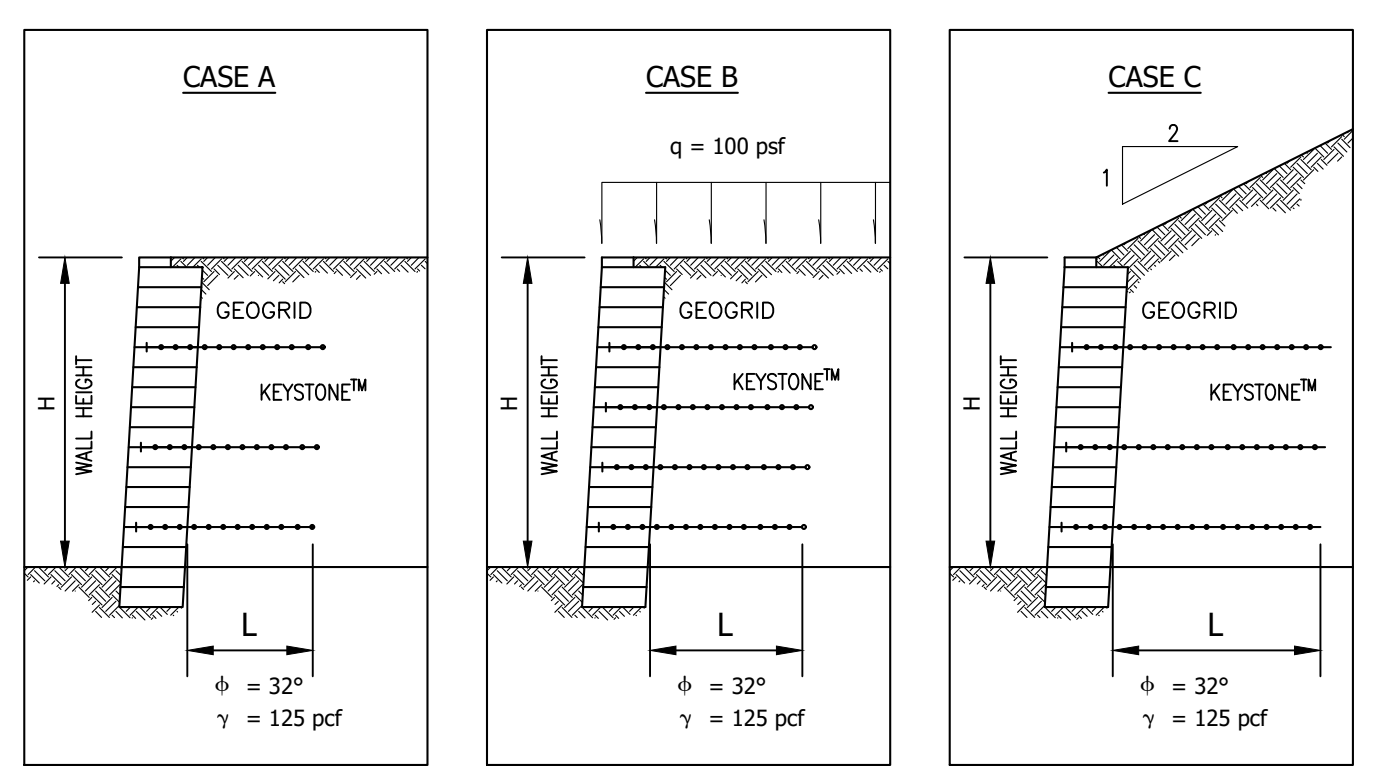
4 KEYWAY @ FILL SLOPES (GREATER THAN 20%)
Scale: NTS



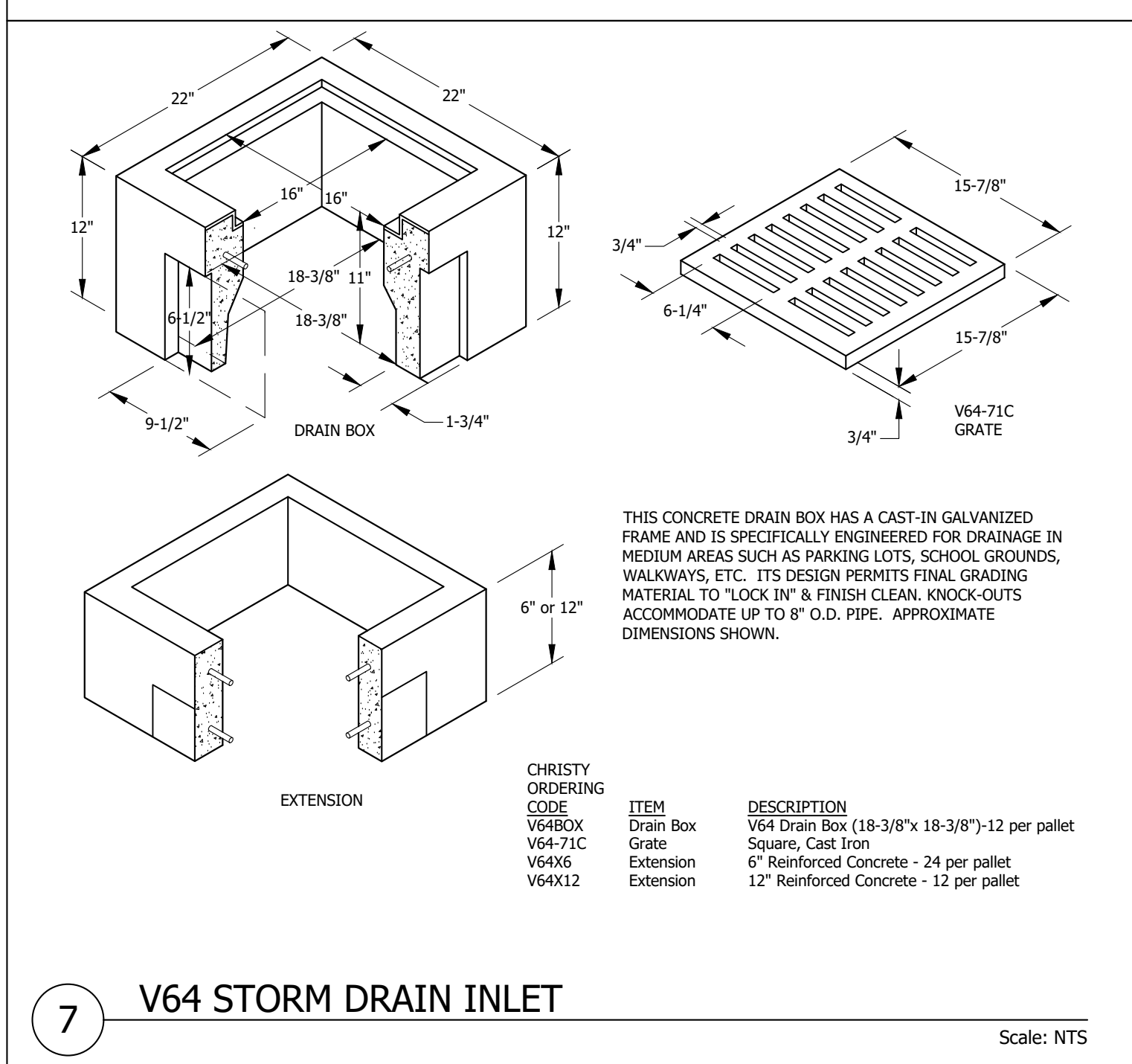
5 KEYSTONE BLOCK RETAINING WALL
Scale: NTS

BASIC GEOGRID PLACEMENT CHART *

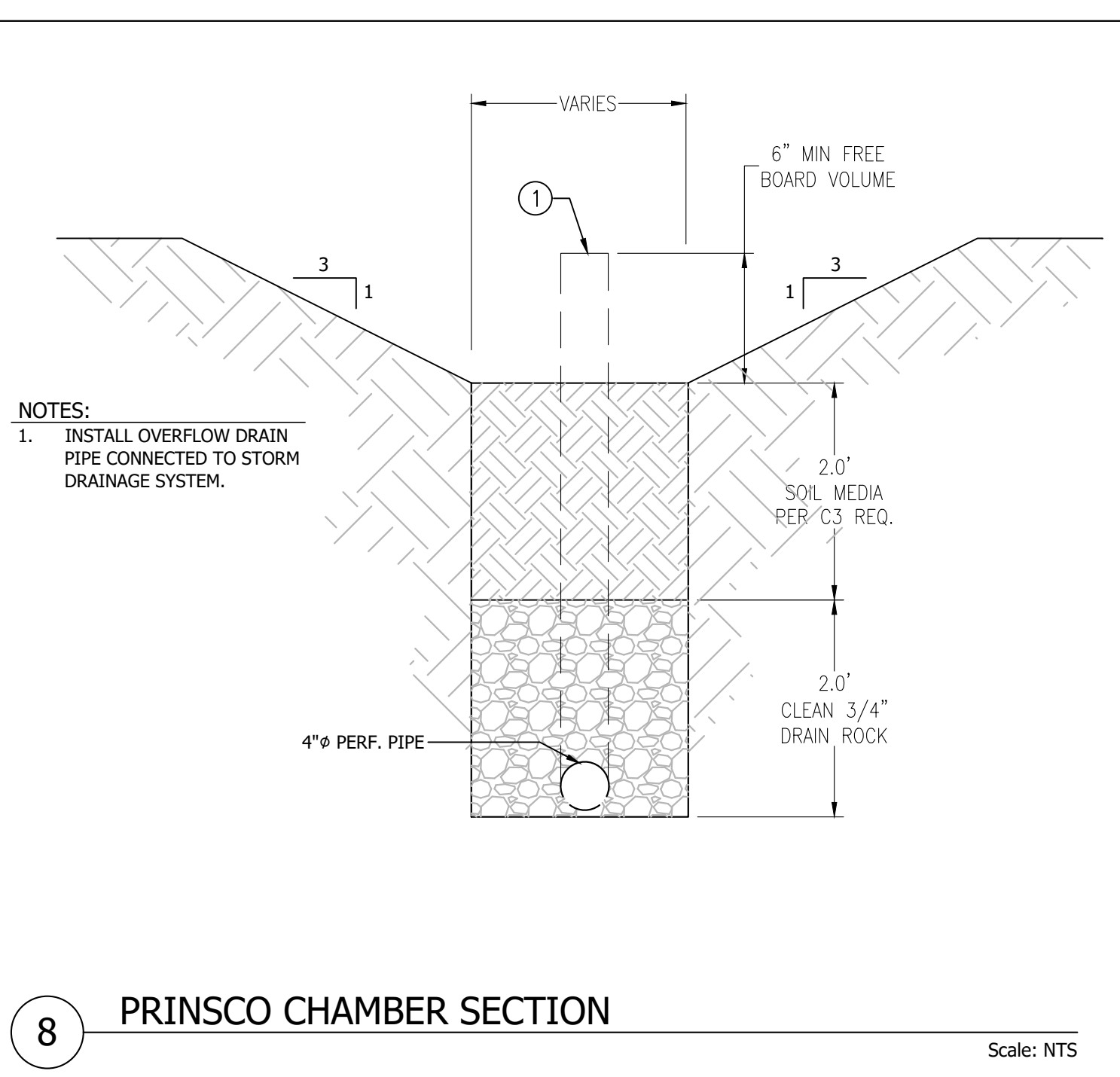
WALL HEIGHT FEET	CASE	GRID TYPE	NUMBER OF LAYERS	GEOGRID LENGTH FEET	GEOGRID LAYER NUMBER
4	A	-	-	-	1 2 3 4 5
4	B	-	-	-	
4	C	1	2.5	1.5	
5	A	-	-	-	
5	B	1	2.5	2	
5	C	2	3.7	1.3	3.3
6	A	1	2.5	2.7	
6	B	2	2.5	1.3	3.3
6	C	3	4.3	.7	2 4
7	A	2	3.0	1.3	4.0
7	B	3	3.0	1.3	2.7 4.7
7	C	3	4.9	1.3	2.7 4.7
8	A	3	3.2	1.3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



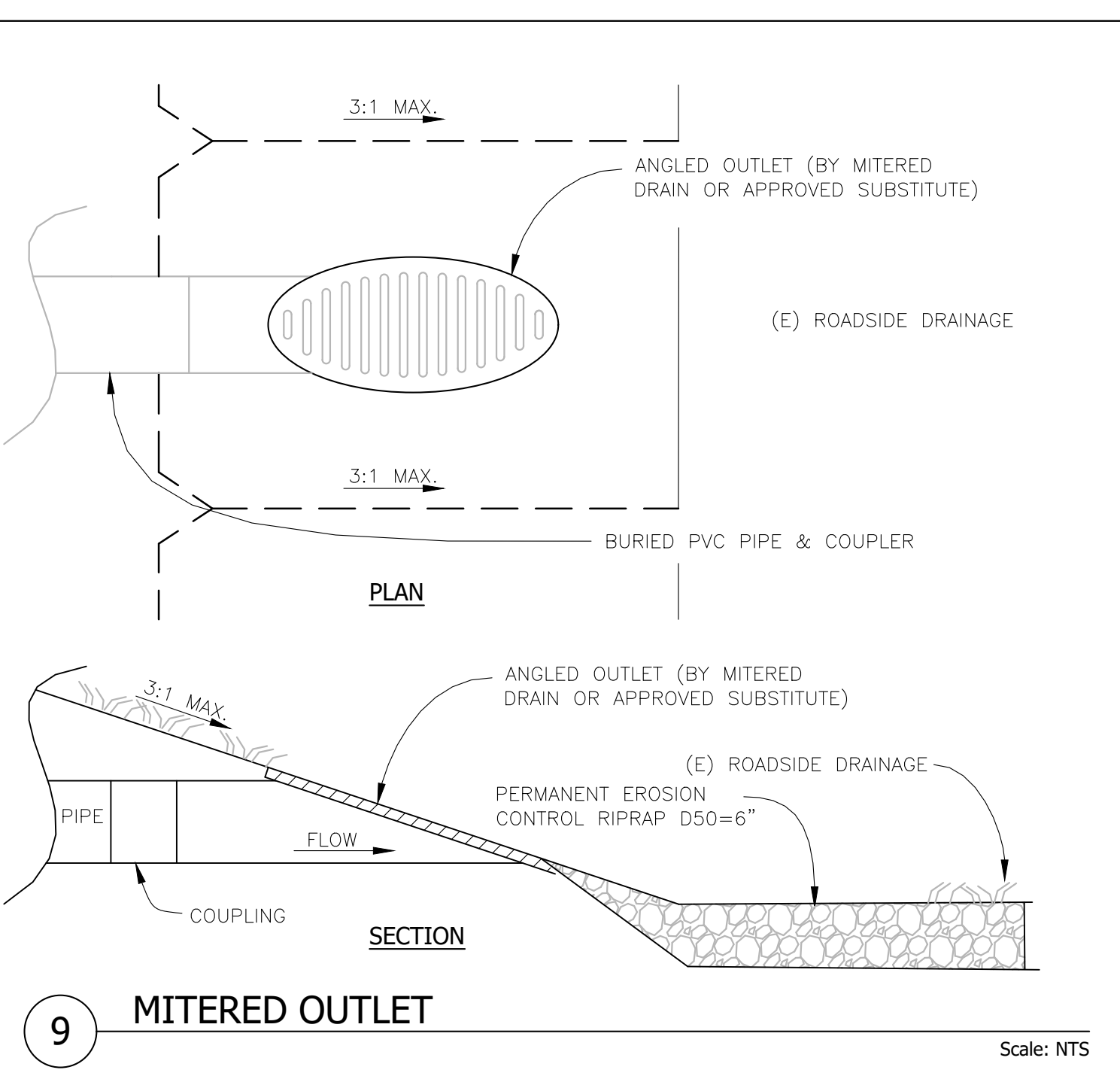
6 TRENCH INSTALLATION DETAIL
Scale: NTS



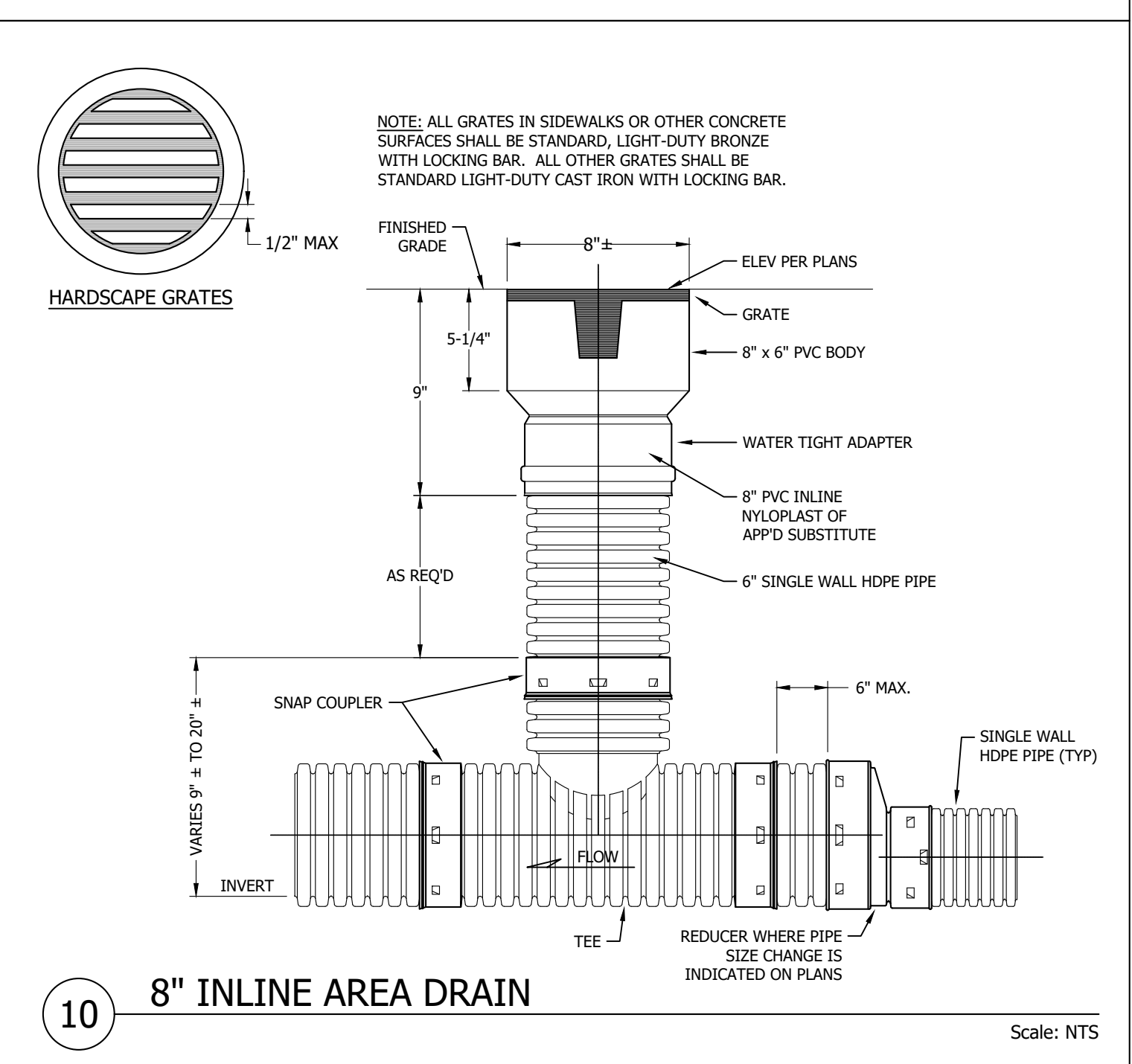
7 V64 STORM DRAIN INLET
Scale: NTS



8 PRINSCO CHAMBER SECTION
Scale: NTS



9 MITERED OUTLET
Scale: NTS



10 8" INLINE AREA DRAIN
Scale: NTS

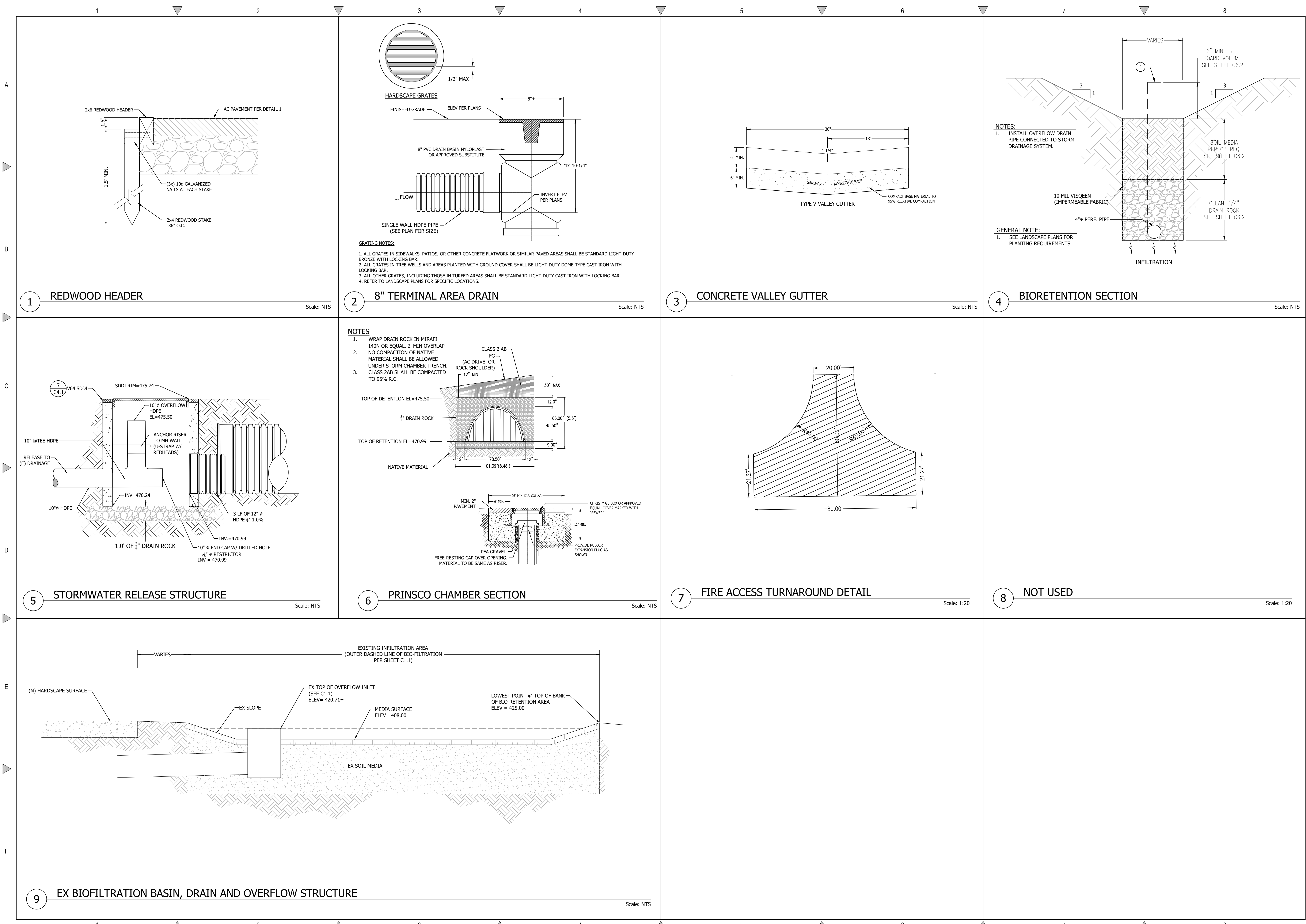
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
2 RESPONSE TO SCC COMMENTS 03/16/23	DD
3 RESPONSE TO SCC COMMENTS 05/25/23	DD

DETAILS

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BARSANA RESIDENCE
AUGUSTE COURT
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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

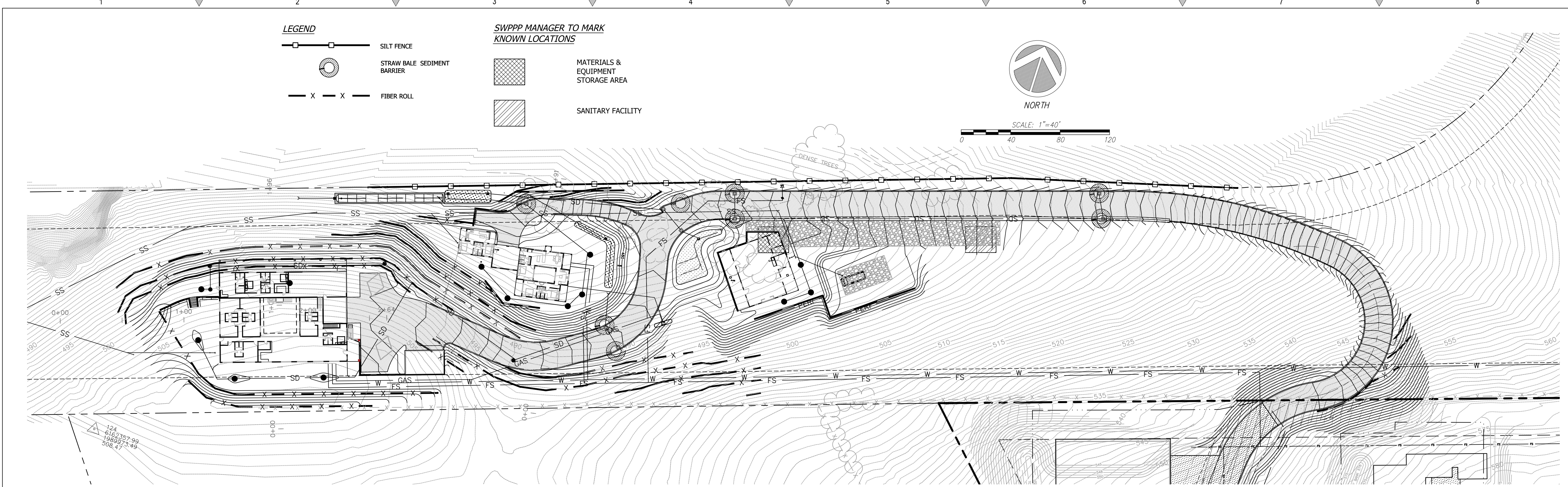


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BARSANA RESIDENCE
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Of	37 Sheets

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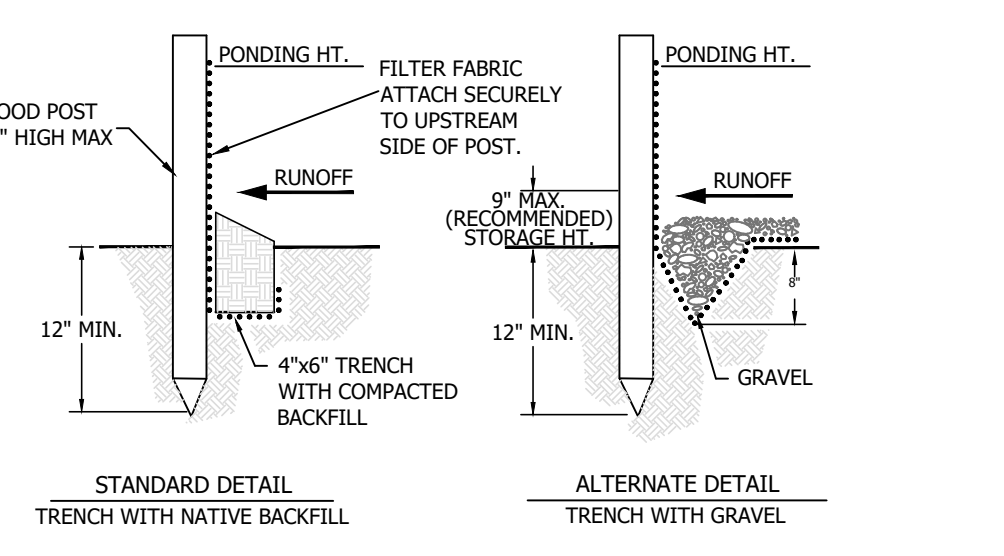
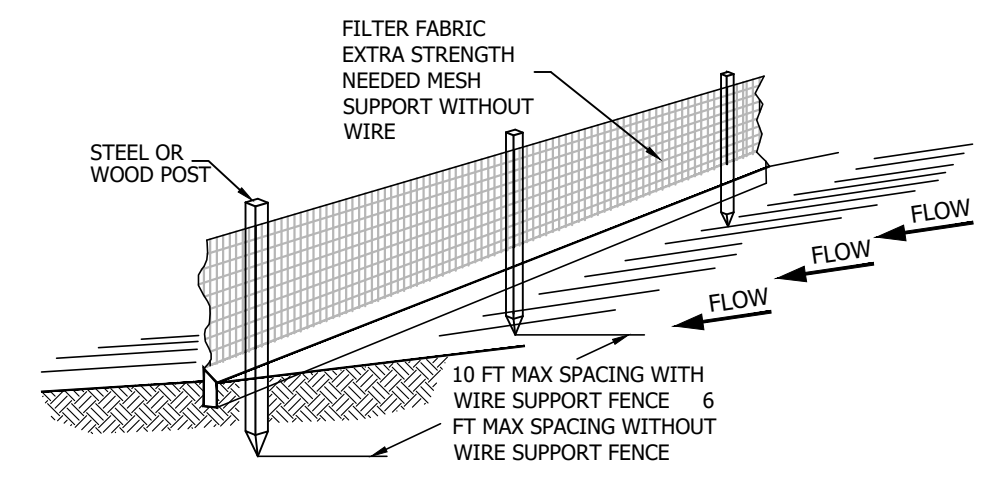
REVISIONS	BY
1 RESPONSE TO SCC COMMENTS 11/05/21	DD
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3 RESPONSE TO SCC COMMENTS 05/25/23	DD

EROSION CONTROL



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- 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 UPHILL.

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.

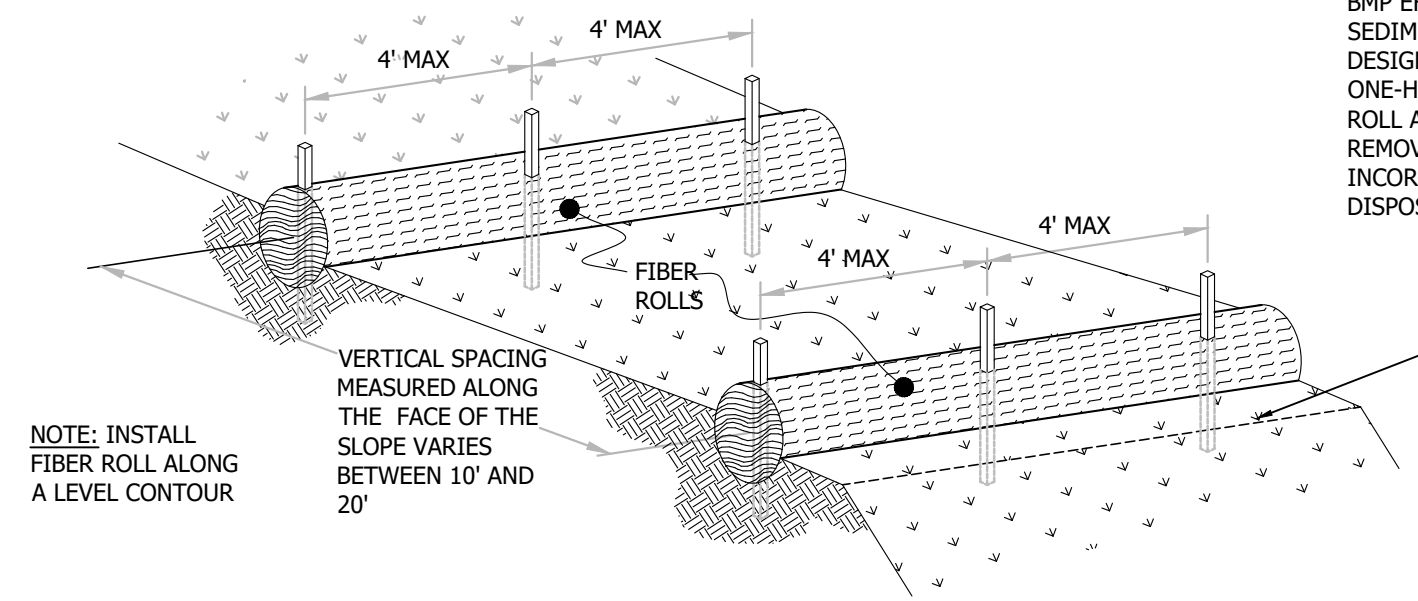
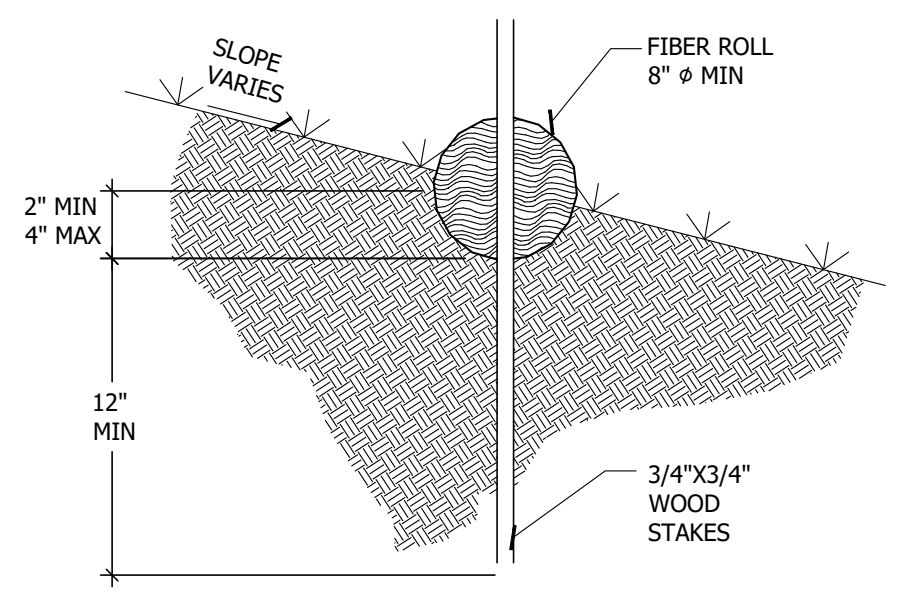
SILT FENCES PLACED AT THE TOE OF A SLOPE SHALL BE SET AT LEAST 6 FEET FROM THE TOE IN ORDER TO INCREASE PONDING VOLUME.

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

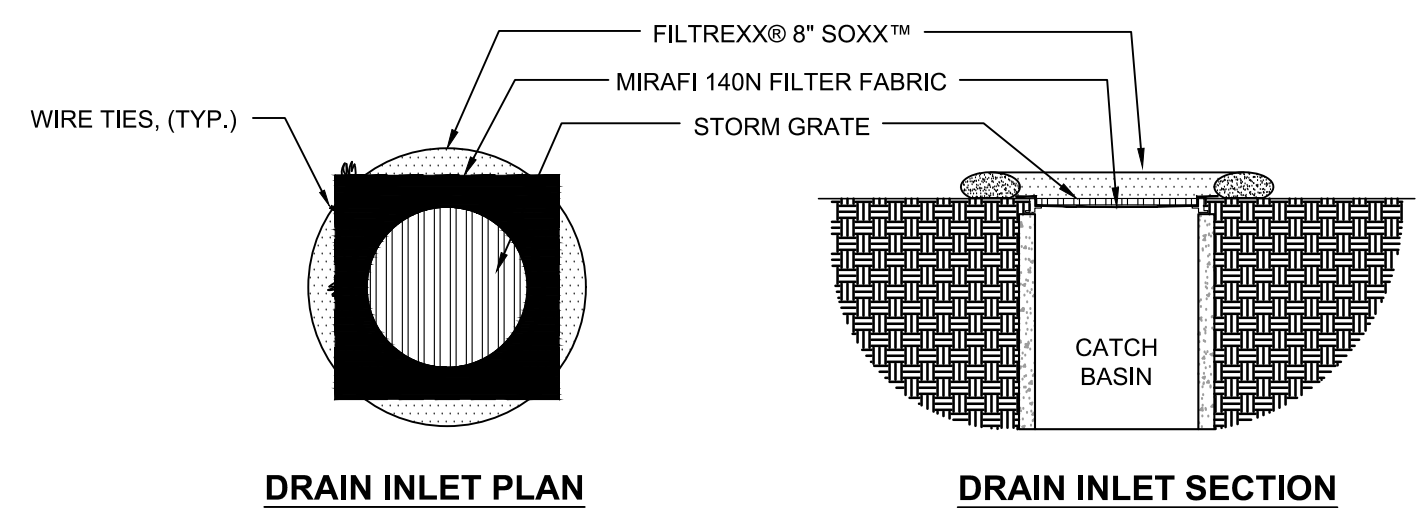
CONSTRUCTION SPECIFICATIONS

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.

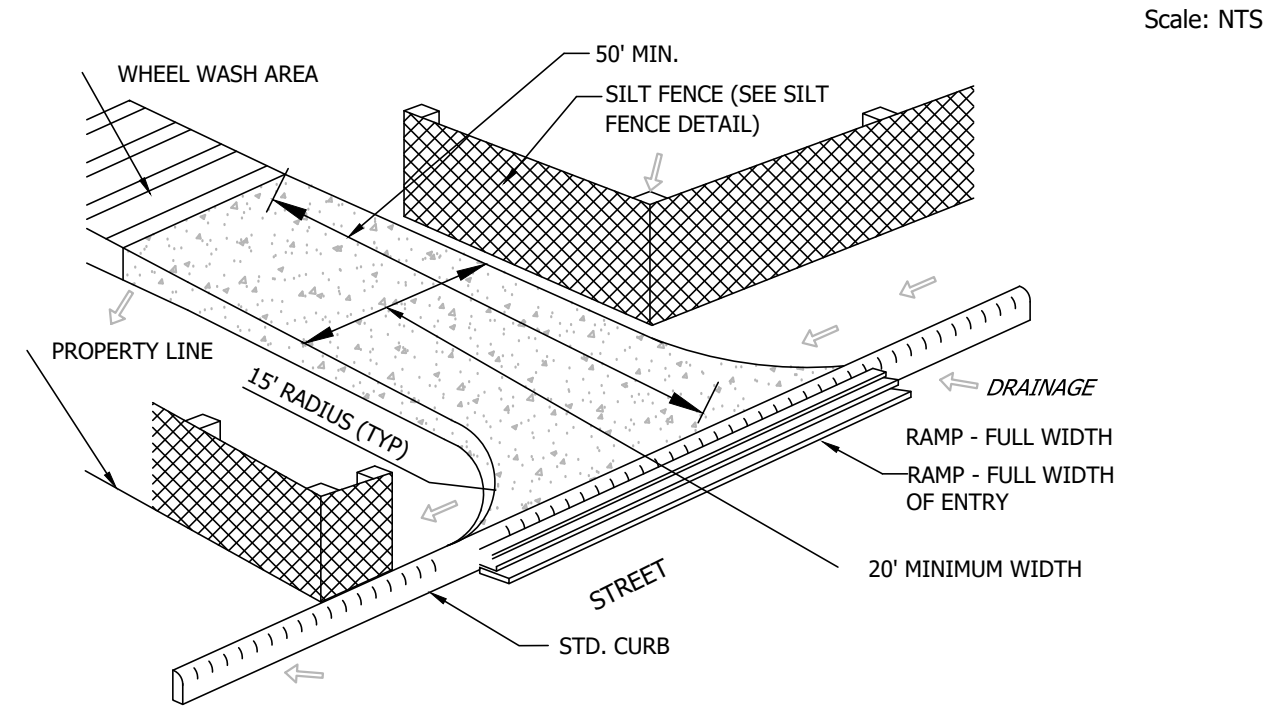
IF THE FIBER ROLL IS USED AS A SEDIMENT CAPTURE DEVICE, OR AS AN EROSION CONTROL DEVICE TO MAINTAIN SHEET FLOWS, SEDIMENT THAT ACCUMULATES IN THE BMP MUST BE PERIODICALLY REMOVED IN ORDER TO MAINTAIN BMP EFFECTIVENESS. SEDIMENT SHOULD BE REMOVED WHEN SEDIMENT ACCUMULATION REACHES ONE-HALF THE DESIGNATED 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.

Scale: NTS



- 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

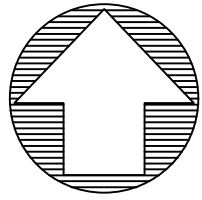


3 ROCKED CONSTRUCTION ENTRANCE

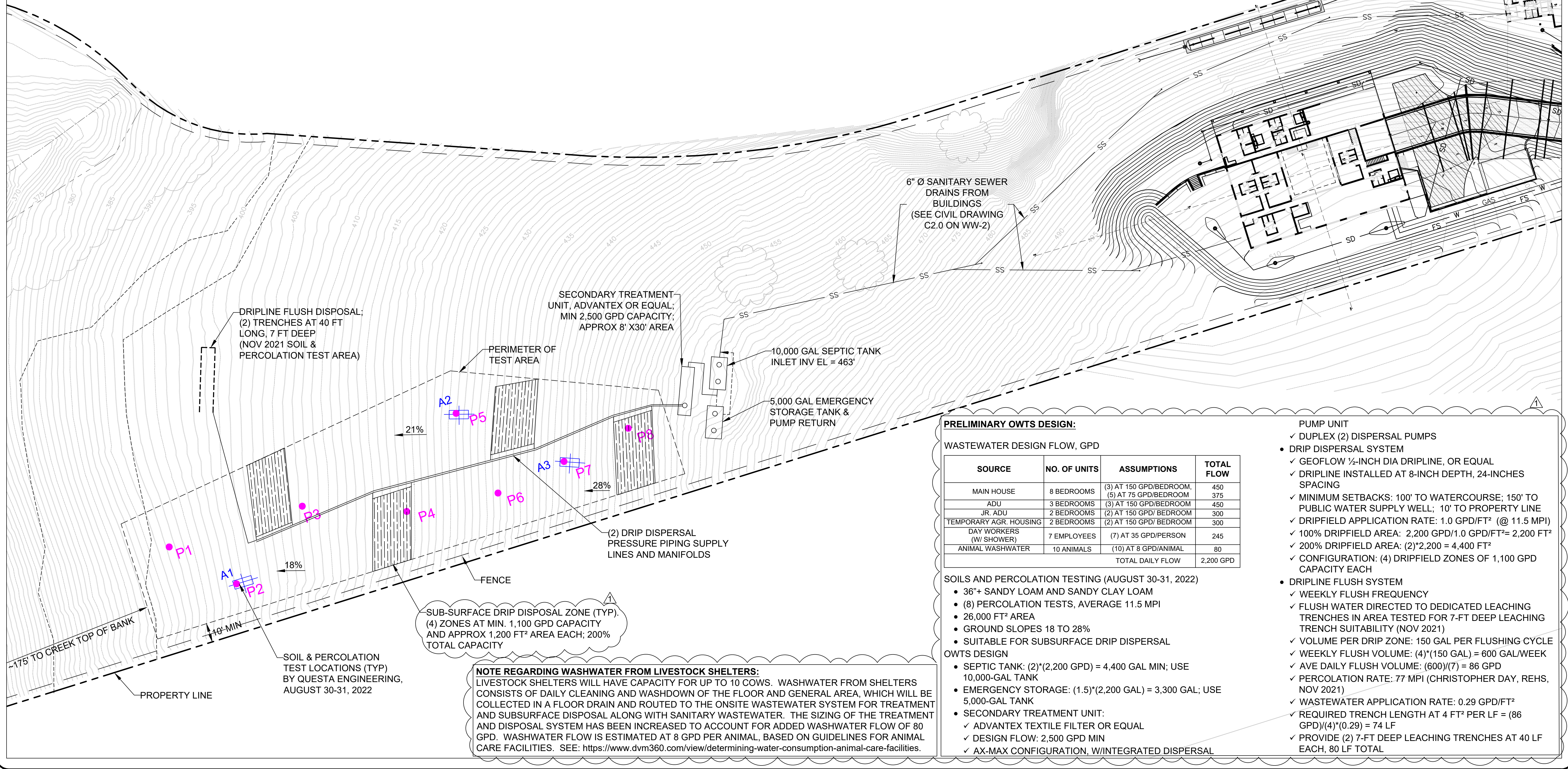
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BARSANA RESIDENCE AUGUSTE COURT APN: 029-35-007

Date: 08/06/21
 Scale: 1" = 40'
 Drawn: DD
 Job: 3007.02
 Sheet: C5.1
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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
ANIMAL WASHWATER	10 ANIMALS	(10) AT 8 GPD/ANIMAL	80
TOTAL DAILY FLOW			2,200 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 FT² AREA
- GROUND SLOPES 18 TO 28%
- SUITABLE FOR SUBSURFACE DRIP DISPERSAL

OWTS DESIGN

- SEPTIC TANK: (2)*(2,200 GPD) = 4,400 GAL MIN; USE 10,000-GAL TANK
- EMERGENCY STORAGE: (1.5)*(2,200 GAL) = 3,300 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/FT² (@ 11.5 MPI)
 - ✓ 100% DRIPFIELD AREA: 2,200 GPD/1.0 GPD/FT² = 2,200 FT²
 - ✓ 200% DRIPFIELD AREA: (2)*2,200 = 4,400 FT²
 - ✓ CONFIGURATION: (4) DRIPFIELD ZONES OF 1,100 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/FT²
 - ✓ REQUIRED TRENCH LENGTH AT 4 FT² PER LF = (86 GPD)/(4)*(0.29) = 74 LF
 - ✓ PROVIDE (2) 7-FT DEEP LEACHING TRENCHES AT 40 LF EACH, 80 LF TOTAL

NOTE REGARDING WASHWATER FROM LIVESTOCK SHELTERS:
 LIVESTOCK SHELTERS WILL HAVE CAPACITY FOR UP TO 10 COWS. WASHWATER FROM SHELTERS CONSISTS OF DAILY CLEANING AND WASHDOWN OF THE FLOOR AND GENERAL AREA, WHICH WILL BE COLLECTED IN A FLOOR DRAIN AND ROUTED TO THE ONSITE WASTEWATER SYSTEM FOR TREATMENT AND SUBSURFACE DISPOSAL ALONG WITH SANITARY WASTEWATER. THE SIZING OF THE TREATMENT AND DISPOSAL SYSTEM HAS BEEN INCREASED TO ACCOUNT FOR ADDED WASHWATER FLOW OF 80 GPD. WASHWATER FLOW IS ESTIMATED AT 8 GPD PER ANIMAL, BASED ON GUIDELINES FOR ANIMAL CARE FACILITIES. SEE: <https://www.dvm360.com/view/determining-water-consumption-animal-care-facilities>.

BARSANA RESIDENCE OWTS

APN: 029-35-007
MILPITAS, CA



Sht	Rev	Date	By	Description	App'd
1		6/14/23	ER	REVISE WW FLOWS FOR ANIMAL SHELTER	NH

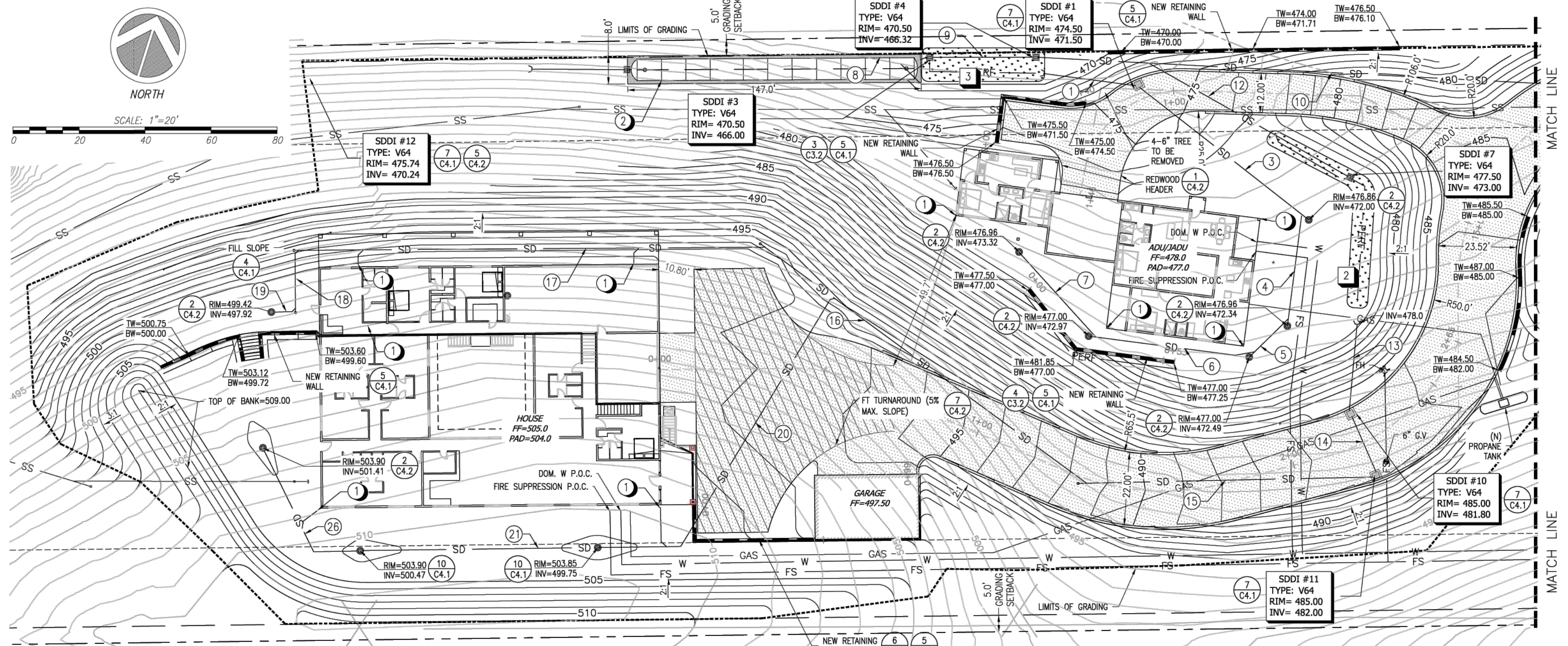
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Drawn:	PS
Checked:	NH
App'd:	NH

ONSITE WASTEWATER TREATMENT AND DISPOSAL PLAN

BARSANA RESIDENCE, MILPITAS, CA

Size	Project
D	2200017
Scale:	AS NOTED
Date:	10/19/22
Sheet:	WW-1

LAST SAVED: 6/14/2023 PLOT DATE: 6/14/2023 PLOT STYLE: ONE INCH D-SIZE PRINT PAGE SETUP: P:\2022\2200017_BARSANA_RESIDENCE_OWTS\CAD\2200017 SITE_PERCSZ.DWG



1 ENLARGED SITE PLAN - SOUTH

BIO-RETENTION NOTES

- BIO-RETENTION AREA #1
747 SQ. FT.
TOP OF SOIL EL = 482.0
- BIO-RETENTION AREA #2
389 SQ. FT.
TOP OF SOIL EL = 477.0
- BIO-RETENTION AREA #3
375 SQ. FT.
TOP OF SOIL EL = 470.0

STORM DRAINAGE PIPE DATA

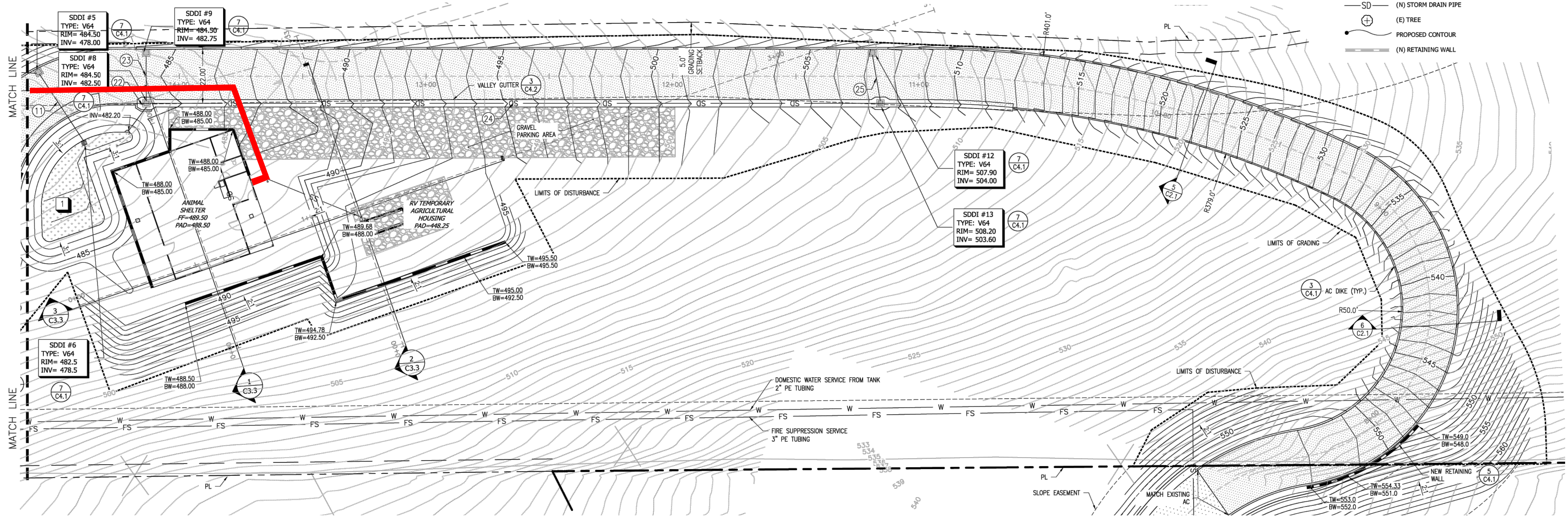
- | | |
|--------------------------------------|--------------------------------------|
| 1. 28 LF OF 8" SDR-35 @ 4.5% SLOPE | 15. 90 LF OF 6" SDR-35 @ 4.4% SLOPE |
| 2. NA | 16. 132 LF OF 6" SDR-35 @ 6.8% SLOPE |
| 3. 65 LF OF 6" SDR-35 @ 0.5% SLOPE | 17. 113 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 4. 34 LF OF 6" SDR-35 @ 1.0% SLOPE | 18. 27 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 5. 15 LF OF 6" SDR-35 @ 1.0% SLOPE | 19. 3 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 6. 48 LF OF 6" SDR-35 @ 1.0% SLOPE | 20. 88 LF OF 6" SDR-35 @ 20.2% SLOPE |
| 7. 35 LF OF 6" SDR-35 @ 1.0% SLOPE | 21. 112 LF OF 6" SDR-35 @ 1.0% SLOPE |
| 8. 30 LF OF 10" SDR-35 @ 1.0% SLOPE | 22. 10 LF OF 6" SDR-35 @ 3.0% SLOPE |
| 9. 30 LF OF 10" SDR-35 @ 1.0% SLOPE | 23. 17 LF OF 6" SDR-35 @ 1.5% SLOPE |
| 10. 150 LF OF 8" SDR-35 @ 7.8% SLOPE | 24. 305 LF OF 6" SDR-35 @ 7.0% SLOPE |
| 11. 39 LF OF 8" SDR-35 @ 1.2% SLOPE | 25. 18 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 12. 71 LF OF 8" SDR-35 @ 6.3% SLOPE | 26. 47 LF OF 6" SDR-35 @ 2.0% SLOPE |
| 13. 28 LF OF 6" SDR-35 @ 14.3% SLOPE | |
| 14. 18 LF OF 8" SDR-35 @ 1.1% SLOPE | |

STORM DRAINAGE NOTES:

- CONNECT TO BUILDING DOWNSPOUT. CONTRACTOR SHALL CONFIRM EXACT LOCATION OF DOWNSPOUT.
- STORMWATER STORAGE CHAMBERS. AREA DIMENSIONS 147' X 8' SEE DETAIL 6/ SHEET C4.2.

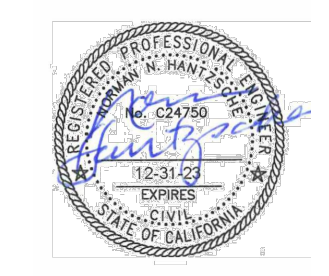
LEGEND

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



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	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: 10/19/22
Sheet: WW-2

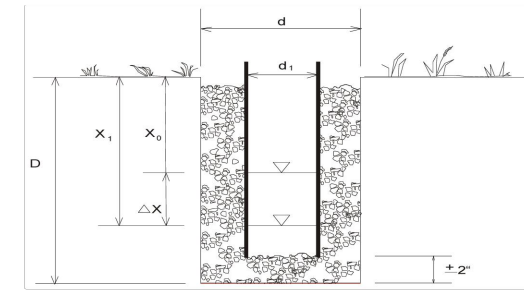
PLOT DATE: 6/14/2023
 PLOT SETUP: 1"=20'
 PLOT STYLE: 1"=20'
 D-SIZE PRINT
 ONE INCH
 LAST SAVED: 6/14/2023 11:58:00 AM
 FILE: C:\Users\mpercsz\OneDrive - QUESTA ENGINEERING CORP\Documents\2200017\2200017_SIT_PERSZ.DWG

PERCOLATION TEST DATA



PERCOLATION TEST DATA

Project Number: 2200017 Date: 8/31/2022
 Project Name: Barsana Residence Test by: MFW(4-8), FJD(1-3)
 Location: 0 Augusto Ct, Milpitas, CA Checked by: MH, JC



SOIL PROFILE LOGS

QUESTA ENGINEERING CORPORATION		SOIL PROFILE DESCRIPTION	
Project Number:	2200017	Project Name:	Barsana Residence
Project Location:	Milpitas	Boring Method:	
Notes:		Date:	8/31/2022
		Logged By:	Matt Wolf

Test Hole: P1		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	9:50:00 AM	14.875	10:20:00 AM	18.500	30.00	3.625	7.25	8.3	
2	10:22:00 AM	11.750	10:52:00 AM	17.500	30.00	5.750	11.50	5.2	
3	10:53:00 AM	16.500	11:23:00 AM	18.875	30.00	2.375	4.75	12.6	
4	11:24:00 AM	16.000	11:54:00 AM	18.625	30.00	2.625	5.25	11.4	
5	11:55:00 AM	16.375	12:25:00 PM	18.750	30.00	2.375	4.75	12.6	
6	12:26:00 PM	16.500	12:56:00 PM	18.875	30.00	2.375	4.75	12.6	
7	12:57:00 PM	16.500	1:27:00 PM	18.875	30.00	2.375	4.75	12.6	
8									
9									
10									
11									
12									

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 17.7 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Starting at 22.5"
 Remaining Presoak:

Test Hole: P3		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	9:54:00 AM	14.000	10:25:00 AM	17.500	31.00	3.50	6.774	8.9	
2	10:27:00 AM	14.000	10:57:00 AM	16.875	30.00	2.88	5.750	10.4	
3	10:58:00 AM	14.000	11:28:00 AM	17.375	30.00	3.38	6.750	8.9	
4	11:29:00 AM	14.000	11:59:00 AM	16.750	30.00	2.75	5.500	10.9	
5	12:00:00 PM	14.000	12:30:00 PM	16.750	30.00	2.75	5.500	10.9	
6	12:31:00 PM	14.000	1:01:00 PM	16.750	30.00	2.75	5.500	10.9	
7									
8									
9									
10									
11									
12									

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 15.3 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Starting at 20"
 Remaining Presoak:

Test Hole: P2		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	9:52:00 AM	3.000	10:23:00 AM	DRY	31.00	6.000			
2	10:24:00 AM	3.000	10:54:00 AM	DRY	30.00	6.000			
3	10:56:00 AM	3.000	11:26:00 AM	DRY	30.00	6.000			
4	11:27:00 AM	3.000	11:47:00 AM	8.125	20.00	5.125	15.375	3.9	
5	11:48:00 AM	3.000	12:08:00 PM	8.125	20.00	5.125	15.375	3.9	
6	12:09:00 PM	3.000	12:29:00 PM	8.125	20.00	5.125	15.375	3.9	
7									
8									
9									
10									
11									
12									

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 5.5 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Starting at 9"
 Remaining Presoak:

Test Hole: P4		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	9:55:00 AM	3.000	10:27:00 AM	7.500	32.00	4.500	8.438	7.1	
2	10:28:00 AM	3.000	10:58:00 AM	6.625	30.00	3.625	7.250	8.3	
3	10:59:00 AM	3.000	11:29:00 AM	6.625	30.00	3.625	7.250	8.3	
4	11:30:00 AM	3.000	12:00:00 PM	6.500	30.00	3.500	7.000	8.6	
5									
6									
7									
8									
9									
10									
11									
12									

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 12.0 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Starting at 9"
 Remaining Presoak:

Test Hole: P5		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	9:58:00 AM	6.000	10:29:00 AM	12.000	31.00	6.000	11.613	5.2	
2	10:30:00 AM	5.250	11:00:00 AM	11.375	30.00	6.125	12.250	4.9	
3	11:01:00 AM	6.000	11:32:00 AM	11.250	31.00	5.250	10.161	5.9	
4	11:33:00 AM	6.000	12:03:00 PM	11.000	30.00	5.000	10.000	6.0	
5	12:04:00 PM	6.000	12:34:00 PM	11.000	30.00	5.000	10.000	6.0	
6	12:45:00 PM	6.000	1:15:00 PM	11.000	30.00	5.000	10.000	6.0	
7									
8									
9									
10									
11									
12									

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 8.4 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Starting at 12"
 Remaining Presoak:

Test Hole: P7		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	10:01:00 AM	12.000	10:34:00 AM	15.625	33.00	3.625	6.591	9.1	
2	10:35:00 AM	12.000	11:05:00 AM	15.125	30.00	3.125	6.250	9.6	
3	11:06:00 AM	11.875	11:36:00 AM	15.000	30.00	3.125	6.250	9.6	
4	11:37:00 AM	12.000	12:07:00 PM	15.250	30.00	3.250	6.500	9.2	
5	12:07:00 PM	12.000	12:37:00 PM	15.250	30.00	3.250	6.500	9.2	
6									
7									
8									
9									
10									
11									
12									

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 12.9 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Starting at 18"
 Remaining Presoak:

Test Hole: P6		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Sandy Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	10:00:00 AM	3.000	10:32:00 AM	5.750	32.00	2.750	5.156	11.6	
2	10:33:00 AM	2.875	11:03:00 AM	5.250	30.00	2.375	4.750	12.6	
3	11:04:00 AM	2.875	11:34:00 AM	5.125	30.00	2.250	4.500	13.3	
4	11:35:00 AM	3.000	12:05:00 PM	5.250	30.00	2.250	4.500	13.3	
5									
6									
7									
8									
9									
10									
11									
12									

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 18.7 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Started at 9"
 Remaining Presoak:

Test Hole: P8		Hole Diameter (d): 12"		Pipe Diameter (d _i):		4 Depth (D): 24"		Soil Type: Light Clay Loam	
Trial Number	Start Time (T _s)	Initial Water Level (inches) (X _i)	Time Read (T _r)	Final Water Level (inches) (X _f)	Time Interval (minutes) (T)	Water Drop (inches) (ΔX)	Inches per Hour	Percolation Rate	
								Minutes per Inch	
1	10:03:00 AM	3.000	10:36:00 AM	DRY	33.00	>6			
2	10:37:00 AM	3.000	11:07:00 AM	DRY	30.00	>6			
3	11:08:00 AM	3.000	11:38:00 AM	DRY	30.00	>6			
4	11:39:00 AM	3.000	12:10:00 PM	DRY	32.00	>6			
5	12:10:00 PM	3.000	12:20:00 PM	DRY	2.00	>6			
6	12:38:00 PM	3.000	12:39:00 PM	9.000	1.00	6.000	360.000	0.2	
7	12:14:45 PM	3.000	12:16:05 PM	9.000	1.33	6.000	270.677	0.2	
8	12:17:35 PM	3.000	12:19:00 PM	9.000	1.42	6.000	253.521	0.2	
9	12:20:10 PM	3.000	12:22:00 PM	9.000	1.83	6.000	196.721	0.3	
10	12:19:00 PM	3.000	12:21:10 PM	9.000	1.17	6.000	307.692	0.2	
11	12:29:50 PM	3.000	12:32:50 PM	9.000	3.00	6.000	120.000	0.5	
12	12:48:00 PM	3.000	12:50:00 PM	9.000	2.00	6.000	180.000	0.3	
13	12:52:00 PM	3.000	12:54:00 PM	9.000	2.00	6.000	180.000	0.3	
14	1:02:35 PM	3.000	1:06:30 PM	9.000	3.92	6.000	91.837	0.7	
15	1:08:05 PM	3.000	1:13:10 PM	9.000	5.17	6.000	69.632	0.9	
16	1:17:50 PM	3.000	1:23:00 PM	9.000	5.17	6.000	69.632	0.9	
17	1:25:00 PM	3.000	1:30:12 PM	9.000	5.20	6.000	69.231	0.9	

Adjustment Factor: 1.40 Adjusted Stabilized Rate: 1.2 Maximum Application Rate:
 Adjustment Rate Method: Gravel-Pack Notes: Starting at 9"
 Remaining Presoak:

HOLE	1	2	3	4	5	6	7	8
Stabilized MPI	12.60	3.90	10.90	8.60	6.00	13.30	9.20	0.90
Adjusted Stabilized MPI (R x 1.4)	17.70	5.50	15.30	12.00	8.40	18.70	12.90	1.20
Average Adjusted Stabilized MPI	11.46							

BARSANA RESIDENCE OWTS

APN: 029-35-007
 MILPITAS, CA



Sht:	Rev:	Date:	By:	Description:	App'd:	Design:
1	6/14/23	ER		NEW SHEET - SOILS & PERC DATA	NH	MW
						PS
				</		