

Appendix A

Technical Memorandum and Overall Civil Grading Plan

LEGEND

- GRADING LIMITS (G-0 SHEET)
- PARENTHESES INDICATE 'EXISTING'
- INDICATES EXISTING GROUND ELEVATIONS
- INDICATES PROPOSED GROUND ELEVATIONS
- EDGE OF EXISTING PAVEMENT
- PROPOSED ASPHALT
- PAVERS
- NEW CONCRETE
- DIRT TRAVELED WAY
- DIRT TRAVELED WAY
- CURB AND GUTTER
- EXISTING SLOPE
- PROPOSED SLOPE
- CENTERLINE
- PROPERTY LINE
- FLOWLINE
- RIGHT-OF-WAY
- CHAIN-LINK FENCE
- WOOD POST FENCE
- EXISTING BLOCK WALL
- POWER POLE
- GUY WIRE
- FIRE HYDRANT
- VALVE
- BLOW-OFF
- AIR RELEASE VALVE
- LIGHT STANDARD
- PROPOSED BLOCK WALL
- WATER METER
- REDUCER
- END CAP
- JOSHUA TREE
- TREE
- PINE TREE
- SHRUB
- CACTUS
- PEDESTAL
- STREET LIGHT
- STREET SIGN
- TRAFFIC LOOP
- TRAFFIC SIGNAL BOX
- MAILBOX
- BENCHMARK
- SURVEY MONUMENT
- SEWER MANHOLE
- TELEPHONE MANHOLE
- EXISTING SEWER LINE
- EXISTING WATER LINE
- PROPOSED STORM DRAIN
- EXISTING GAS LINE
- EXISTING TELEPHONE LINE
- EXISTING FIBER OPTIC LINE
- EXISTING ELECTRICAL LINE
- EXISTING CABLE TV LINE
- EXISTING STORM DRAIN

ABBREVIATIONS

ACP	ASBESTOS CEMENT	GL	GRADING LIMIT
BC	BEGINNING OF CURVE	HP	HIGH POINT
BCR	BEGIN CURB RETURN	HORIZ.	HORIZONTAL
BVC	BEGIN VERTICAL CURVE	INV.	INVERT ELEVATION
BV	BUTTERFLY VALVE	L.F.	LINEAR FEET
CML	CEMENT MORTAR LINED	MH	MANHOLE
CML&C	CEMENT MORTAR LINED AND COATED	MR	MECHANICALLY RESTRAINED
C & G	CURB AND GUTTER	MJ	MECHANICAL JOINT
C	CENTERLINE	OHPL	OVERHEAD POWERLINE
CIPP	CAST IN-PLACE PIPE	PP	POWER POLE
DIP	DUCTILE IRON PIPE	PRV	PRESSURE REDUCING VALVE
EC	END OF CURVE	PVC	POLYVINYL CHLORIDE PIPE
ECR	END CURB RETURN	PROP.	PROPOSED
EVC	END VERTICAL CURVE	P	PROPERTY LINE
(E)	EXISTING	PUE	PUBLIC UTILITY EASEMENT
F	FLOWLINE	PVI	POINT OF VERTICAL INTERSECTION
FS	FINISH SURFACE	RAD	RADIAL
FG	FINISH GRADE	RCP	REINFORCED CONCRETE PIPE
TC	TOP OF CURB	RW	RIGHT OF WAY
TF	TOP OF FOOTING	S.L.	SEWER LATERAL
TW	TOP OF WALL	SD	STORM DRAIN
TG	TOP OF GRATE	STA.	STATION
FF	FINISH FLOOR	VERT.	VERTICAL
FLGD	FLANGED	WS	WATER SERVICE
GV	GATE VALVE	Ø	DIAMETER
GB	GRADE BREAK	TMH	TELEPHONE MANHOLE

PHELAN PIÑON HILLS COMMUNITY SERVICES DISTRICT PHELAN, CALIFORNIA IN THE COUNTY OF SAN BERNARDINO CIVIC CENTER DEVELOPMENT PHASE I SHEEP CREEK ROAD/ WARBLER ROAD APN: 3066-261-10 & 3066-251-18

GRADING NOTES FOR COUNTY OF SAN BERNARDINO

- ALL GRADING SHALL CONFORM TO THE LATEST CALIFORNIA BUILDING CODE (CBC) CHAPTERS 17, 18 APPENDIX- J AND ALL APPLICABLE SECTIONS.
- A GRADING PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY WORK ON THE SITE.
- ISSUANCE OF A GRADING PERMIT DOES NOT ELIMINATE THE NEED FOR PERMITS FROM OTHER REGULATORY AGENCIES WITH REGULATORY RESPONSIBILITIES FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK AUTHORIZED IN THIS PLAN.
- ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. A SEPARATE CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS MAY BE REQUIRED FOR ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
- APPROVAL OF THESE PLANS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE EFFECTIVE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
- THIS PLAN IS FOR GRADING PURPOSES ONLY AND IS NOT TO BE USED FOR THE PURPOSE OF CONSTRUCTING ONSITE OR OFFSITE IMPROVEMENTS. ISSUANCE OF A PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT STRUCTURAL SECTIONS OR LAYOUT, ADA-RELATED REQUIREMENTS, BUILDING LOCATIONS OR FOUNDATIONS, WALLS, CURBING, OFFSITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION. ONSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE APPROVED BUILDING PERMIT PLANS. OFFSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO PLANS APPROVED FOR THIS PURPOSE BY THE PUBLIC WORKS DEPARTMENT.
- MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL) AND MAXIMUM VERTICAL HEIGHT = 30 FEET, UNLESS AN APPROVED GEOTECHNICAL REPORT CAN JUSTIFY A STEEPER AND TALLER SLOPE.
- NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
- FILL SLOPES SHALL NOT HAVE LESS THAN 90% RELATIVE COMPACTION, OR AS RECOMMENDED ON THE APPROVED GEOTECHNICAL REPORT.
- IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILL SLOPES. UNLESS OTHERWISE RECOMMENDED IN AN APPROVED GEOTECHNICAL REPORT, OVER-EXCAVATION SHALL BE AT LEAST 24 INCHES MINIMUM BELOW THE BOTTOM OF FOOTINGS OR TO COMPETENT NATIVE SOL OR BEDROCK MATERIALS, WHICHEVER IS DEEPER, AS APPROVED BY THE PROJECT'S GEOTECHNICAL ENGINEER OR GEOLOGIST.
- EARTHWORK VOLUMES:
 - CUT: 38,200 (CY) FILL: 30,560 (CY)
 - TOTAL DISTURBED AREA 515,432 SF (11.8 ACRES)
- EARTHWORK QUANTITIES ARE SHOWN FOR GRADING PERMIT PURPOSES ONLY, AND SAN BERNARDINO COUNTY IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
- ANY ONSITE RETAINING WALLS SHOWN ON THE GRADING PLANS THAT ARE OVER 4' IN HEIGHT, MEASURED FROM THE TOP OF WALL TO BOTTOM OF FOOTING, ARE FOR REFERENCE ONLY. RETAINING WALLS OVER 4' IN HEIGHT ARE NOT CHECKED, PERMITTED, OR INSPECTED PER THE GRADING PERMIT. A SEPARATE RETAINING WALL PERMIT IS REQUIRED FOR ALL RETAINING WALLS OVER 4' IN HEIGHT.
- ANY WALLS, FENCES, STRUCTURES AND/ OR APPURTENANCES ADJACENT TO THIS PROJECT ARE TO BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/ OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
- FOR SITES WITH PROTECTED SPECIES OR TREES, THE PROPOSED GRADING MAY BE SUBJECT TO A SEPARATE PERMIT.
- ADEQUATE FIRE ACCESS AROUND BUILDINGS (INCLUDING GARAGES) SHOULD BE PROVIDED AS APPROVED BY COUNTY FIRE.
- EXISTING DRAINAGE COURSES SHALL NOT BE OBSTRUCTED, ALTERED, OR DIVERTED WITHOUT PRIOR APPROVAL OF THE COUNTY OF SAN BERNARDINO, LAND DEVELOPMENT DIVISION. A STREAMBED ALTERATION AGREEMENT MAY ALSO BE REQUIRED FROM THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE.
- DRAINAGE EASEMENTS SHALL NOT BE OBSTRUCTED, ALTERED OR DIVERTED WITHOUT PRIOR APPROVAL OF THE COUNTY OF SAN BERNARDINO, LAND DEVELOPMENT DIVISION.
- SETBACKS AND BUILDING LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER SEPARATE BUILDING PERMIT.
- UTILITY AND SEPTIC IMPROVEMENTS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
- ON PROJECTS DISTURBING ONE ACRE OR MORE, THE FOLLOWING NOTE MUST BE ADDED: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.
- IN CONJUNCTION WITH THE CALIFORNIA GENERAL PERMIT FOR PROPOSED DISTURBANCE OVER ONE ACRE, AN ACTIVE WASTEWATER DISCHARGE ID # (WVID) MUST BE INCLUDED ON THE FINAL GRADING PLAN.
- FOR ENGINEERED GRADING, A FINAL GRADING CERTIFICATION WILL BE COLLECTED BY THE BUILDING INSPECTOR AT THE FINAL BUILDING INSPECTION OR PRIOR A GRADING FINAL STATUS ON THE PERMIT. THE FINAL GRADING CERTIFICATION IS TO BE COMPLETED BY THE ENGINEER OF RECORD ON THE APPROVED GRADING PLANS.
- ALL FLOOD ZONE REQUIREMENTS MUST BE REFLECTED OR ACCOUNTED FOR ON THE GRADING PLANS. ELEVATIONS OR CONSTRUCTION NOTES MUST BE INCLUDED IN THE PLANS TO ENSURE COMPLIANCE WITH ALL APPLICABLE FIRST FLOOR ELEVATION REQUIREMENTS PER FEMA AND SAN BERNARDINO COUNTY DEVELOPMENT CODE GUIDELINES.
- PROPOSED STARTING DATE: MAY, 2023
- PROPOSED COMPLETION DATE: MAY, 2024

LEGAL DESCRIPTION

- PARCEL NO. 3 OF PARCEL MAP NO. 4063, IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 40, PAGE 80 OF PARCEL MAPS IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, TOGETHER WITH THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 24, TOWNSHIP 4 NORTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA. APN: 3066-251-18
- S 1/2, SW 1/4, NW 1/4, NW 1/4, SEC 24, T4N, R7W APN: 3066-261-10

ENGINEER'S NOTE:

ALR ENGINEERING HAS PREPARED A GEOTECHNICAL REPORT AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL GRADING IN ACCORDANCE TO THIS REPORT DATED OCTOBER 30, 2013, REVISED APRIL 25, 2022.

GEOTECHNICAL ENGINEER'S NOTE:

ALR ENGINEERING AND TESTING HAS CONDUCTED A GEOTECHNICAL INVESTIGATION AND PREPARED A REPORT DATED OCTOBER 30, 2013, REVISED APRIL 25, 2022, FOR PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT ON APN: 3066-261-10. ALL GRADING REQUIREMENTS ARE INCORPORATED IN THESE PLANS.

STEPHEN M. LONGORIA, PE 74782

DECLARATION OF RESPONSIBLE CHARGE:

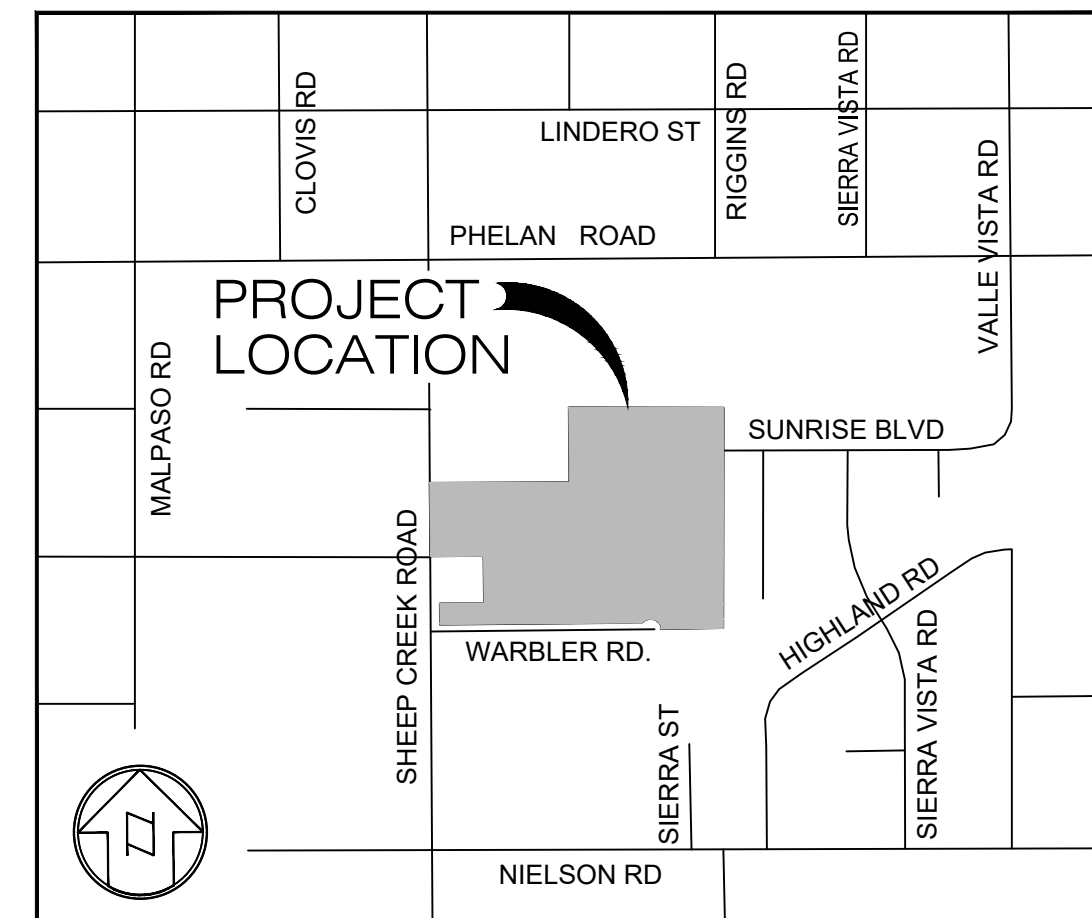
I HEREBY DECLARE THAT I AM THE ENGINEER OF THE WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN BERNARDINO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.

TRLs ENGINEERING, INC.
10770 1 AVE. STE. 108
HESPERIA, CA. 92345



Jerry L. Miles R.C.E. 42593
EXP. 3/31/24 DATE 09/03/2024



LOCATION MAP PHELAN, CA. NOT TO SCALE

AREAS:

EXISTING IMPERVIOUS AREA= 0 S.F.
PROPOSED IMPERVIOUS AREA= 91,876 S.F. (2.11 ACRES)
DISTURBED AREA = 515,432 S.F. (11.8 ACRES)

JOSHUA TREE NOTE:

JOSHUA TREES ARE NOW PROTECTED BY THE STATE OF CALIFORNIA AS A CANDIDATE FOR LISTING AS AN ENDANGERED SPECIES. AT THIS TIME, THE COUNTY CANNOT ISSUE A PERMIT TO TAKE (BY REMOVAL OR TRANSPLANTING) ANY JOSHUA TREE.

OWNER/ APPLICANT:

PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT (P.P.H.C.S.D.)
ATTN: DON BARTZ
4176 WARBLER ROAD
PHELAN, CA 92329-4049
(760) 868-1212

LIST OF DRAWINGS

1. TITLE / INDEX SHEET	T-1
2. GRADING KEY PLAN	G-0
3. GRADING PLAN	G-1
4. GRADING PLAN	G-2
5. GRADING PLAN	G-3
6. GRADING PLAN	G-4
7. GRADING PLAN	G-5
8. GRADING PLAN	G-6
9. HORIZONTAL CONTROL PLAN	HC-1
10. SECTIONS	GS-1
11. SECTIONS	GS-2
12. SECTIONS	GS-3
13. SECTIONS	GS-4
14. ENLARGED GRADING PLANS/ SECTIONS	GS-5
15. UTILITY PLAN	U-1
16. UTILITY PLAN	U-2
17. UTILITY PLAN	U-3
18. UTILITY PLAN	U-4
19. UTILITY DETAILS	UD-1
20. UTILITY DETAILS	UD-2
21. EROSION CONTROL PLAN	E-1
22. EROSION CONTROL DETAILS	E-2
23. EROSION CONTROL DETAILS	E-3
24. EROSION CONTROL DETAILS	E-4
25. EROSION CONTROL DETAILS	E-5

UNAUTHORIZED CHANGES AND USES

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 THESE

WARNING!!!!

THE LOCATION AND ELEVATION OF EXISTING PIPELINES SHOWN ON THESE PLANS ARE APPROPRIATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION AND ELEVATION OF THE PIPELINES PRIOR TO ANY GRADING OR CONSTRUCTION NEAR EXISTING PIPELINES.

NOTE:

UNDERGROUND SERVICE ALERT
48 HOURS PRIOR TO EXCAVATION
TELEPHONE NO. : 1-800-422-4133

ESTIMATED QUANTITIES:

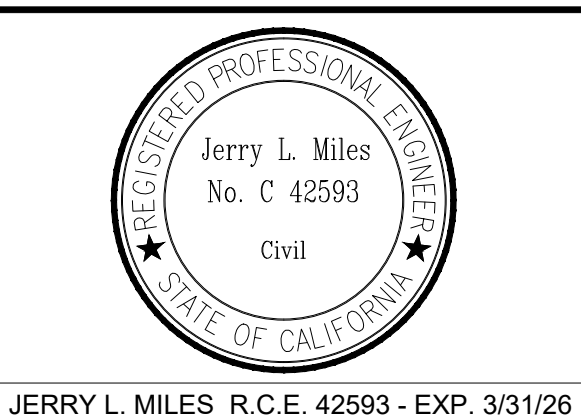
ESTIMATE OF QUANTITIES INCLUDED ON THESE PLANS ARE APPROXIMATE QUANTITIES AND IS INTENDED ONLY FOR PLANNING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING HIS OR HER OWN QUANTITIES.



Know what's below.
Call before you dig.

BENCHMARK:
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD. FROM THE INTERSECTION OF PHELAN RD. 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD. 34 FT EAST OF THE CENTER LINE OF JOHNSON RD. 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD. 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE. 0.6 FT EAST OF A WITNESS POST. ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND. ELEV= 3613.45'

NO.	REVISION	DATE	BY

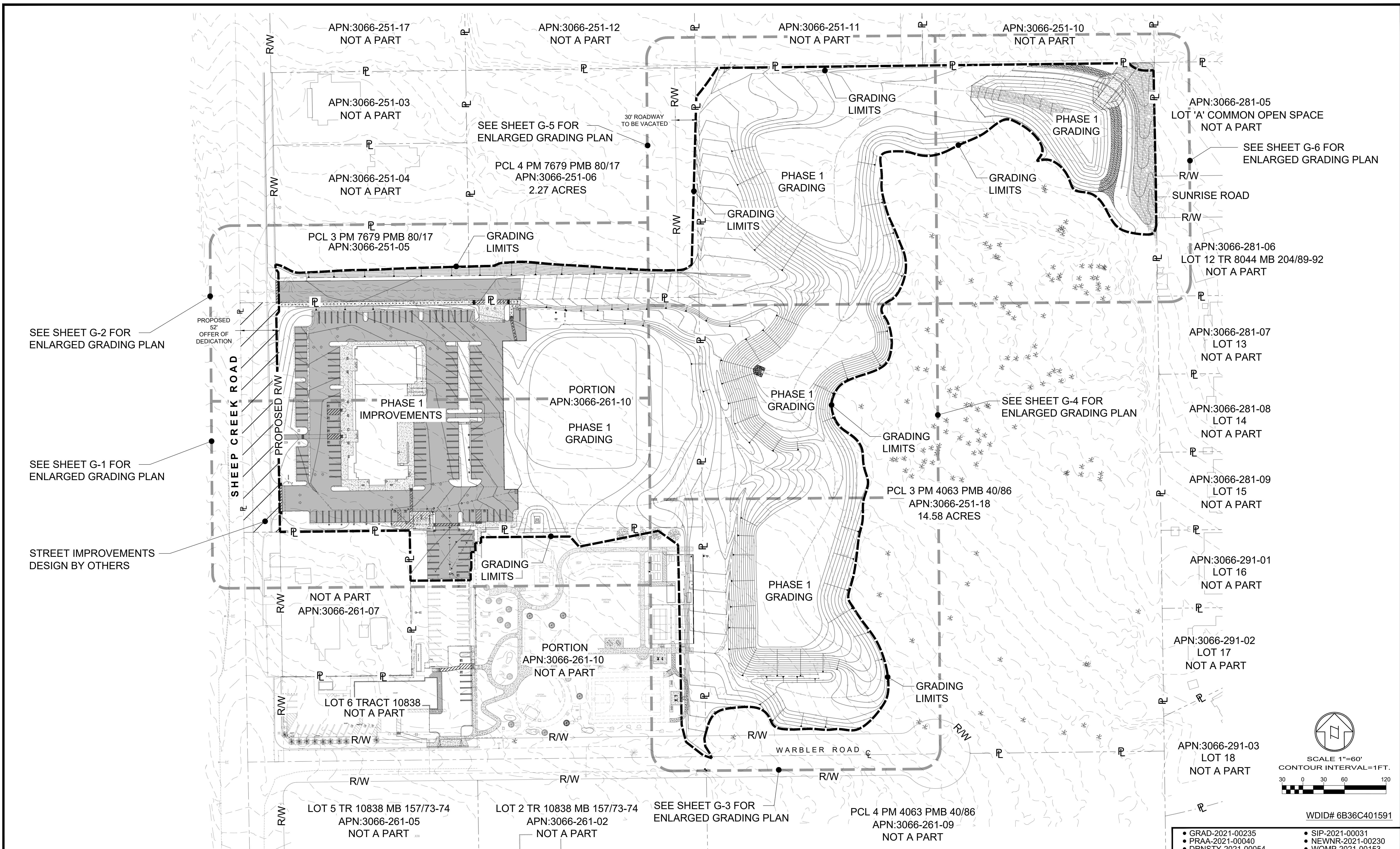


PLANS PREPARED BY:
TRLs ENGINEERING INC.
Jerry L. Miles
10770 1 AVENUE, SUITE 108
Hesperia, CA 92345
Phone: (760) 948-4900

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS	DIRECTOR OF PUBLIC WORKS	
LAND DEVELOPMENT ENGINEER	DATE	DATE	DATE

DRAWN BY: TRLS DATE: 09-03-2024
DESIGNED BY: DATE:
APPROVED BY: DATE:
**PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT
CIVIC CENTER DEVELOPMENT
PHASE I**
9535 SHEEPCREEK RD., PHELAN, CA. 92329
(APN: 3066-261-10 & 3066-251-18)
TITLE/ INDEX SHEET
SCALE: AS SHOWN
SHEET 1 OF 25
SHEET T-1



SEE SHEET G-2 FOR ENLARGED GRADING PLAN

SEE SHEET G-1 FOR ENLARGED GRADING PLAN

STREET IMPROVEMENTS DESIGN BY OTHERS

APN:3066-281-05 LOT 'A' COMMON OPEN SPACE NOT A PART

SEE SHEET G-6 FOR ENLARGED GRADING PLAN

APN:3066-281-06 LOT 12 TR 8044 MB 204/89-92 NOT A PART

APN:3066-281-07 LOT 13 NOT A PART

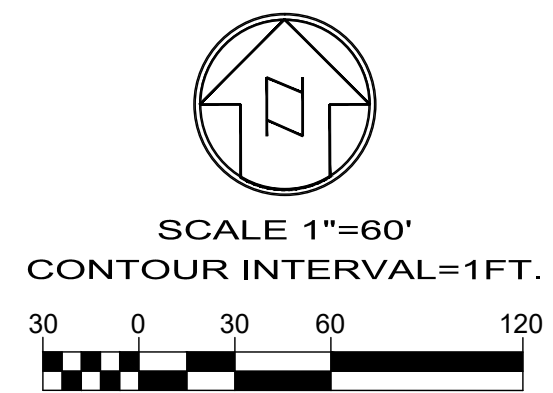
APN:3066-281-08 LOT 14 NOT A PART

APN:3066-281-09 LOT 15 NOT A PART

APN:3066-291-01 LOT 16 NOT A PART

APN:3066-291-02 LOT 17 NOT A PART

APN:3066-291-03 LOT 18 NOT A PART




WDID# 6B36C401591

- GRAD-2021-00235
- PRAA-2021-00040
- DRNSTY-2021-00054
- SIP-2021-00031
- NEWNR-2021-00230
- WQMP-2021-00153

BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
 ELEV= 3613.45'

NO.	REVISION	DATE	BY


 JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

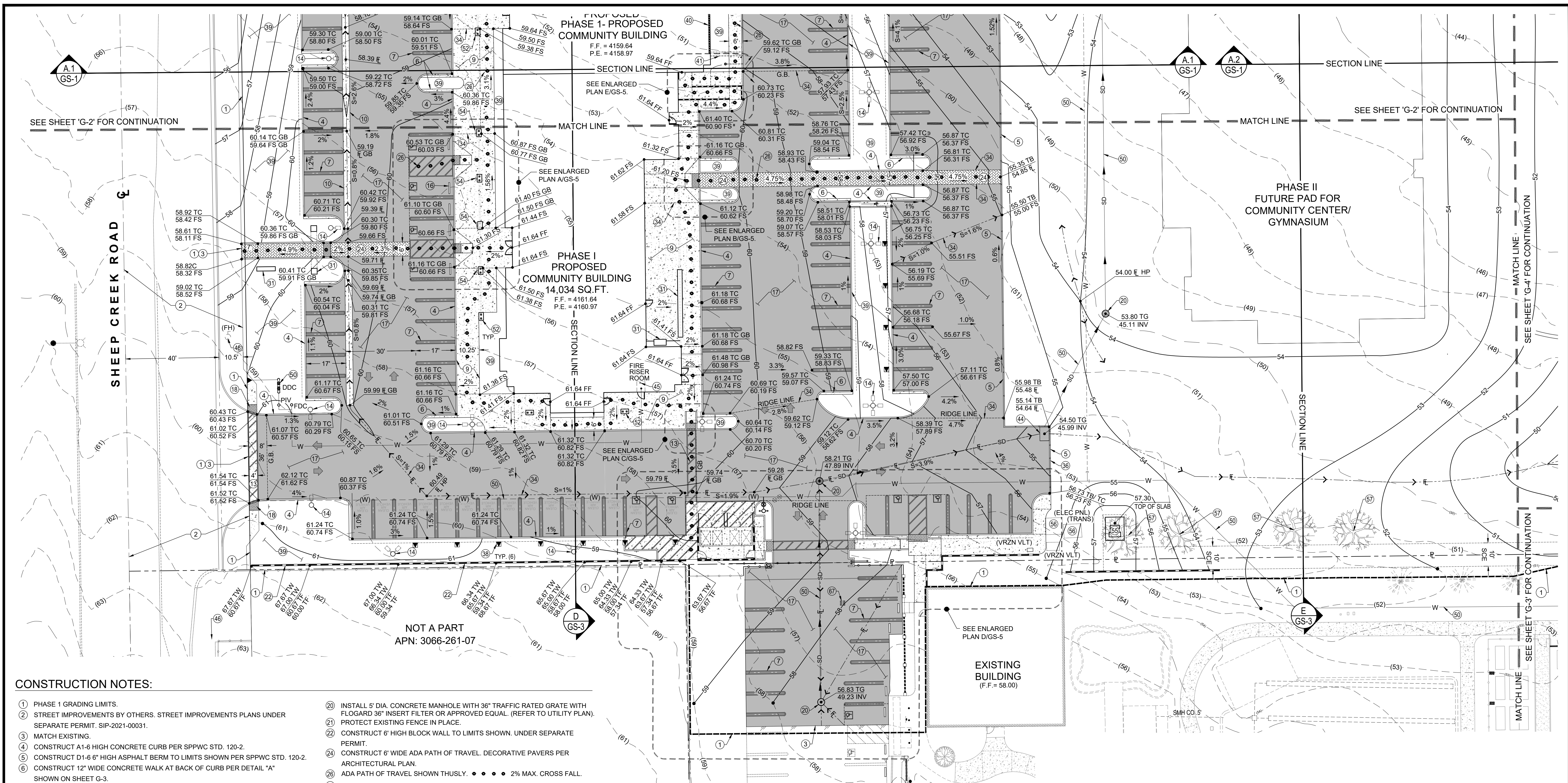
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COUNTY OF SAN BERNARDINO
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DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	DATE

DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)	SCALE: AS SHOWN SHEET 2 OF 25 SHEET G-0
DESIGNED BY: DATE:	APPROVED BY: DATE:	GRADING KEY PLAN





CONSTRUCTION NOTES:

- ① PHASE 1 GRADING LIMITS.
- ② STREET IMPROVEMENTS BY OTHERS. STREET IMPROVEMENTS PLANS UNDER SEPARATE PERMIT. SIP-2021-00031.
- ③ MATCH EXISTING.
- ④ CONSTRUCT A1-6 HIGH CONCRETE CURB PER SPPWC STD. 120-2.
- ⑤ CONSTRUCT D1-6 6" HIGH ASPHALT BERM TO LIMITS SHOWN PER SPPWC STD. 120-2.
- ⑥ CONSTRUCT 12" WIDE CONCRETE WALK AT BACK OF CURB PER DETAIL "A" SHOWN ON SHEET G-3.
- ⑦ INSTALL PAINT STRIPING AND SYMBOLS PER ARCHITECTURAL PLAN.
- ⑧ CONSTRUCT 4" THICK CONCRETE SIDEWALK TO LIMITS SHOWN. CROSS SLOPE TO BE 2.0% MAX.
- ⑩ CONSTRUCT 3" WIDE CONCRETE V-GUTTER PER SBCO STD. 125
- ⑪ CONSTRUCT 6" THICK CONCRETE PAVEMENT TO LIMITS SHOWN
- ⑫ CONSTRUCT 8" BLOCK RETAINING WALL TO LIMITS SHOWN. UNDER SEPARATE PERMIT.
- ⑬ INSTALL 4" WIDE ADA PATH OF TRAVEL WITH STRIPING TO LIMITS SHOWN (CROSS SLOPE MAX = 1.75%)
- ⑭ INSTALL PARKING AREA LIGHT STANDARD PER ARCHITECTURAL PLAN. SAWCUT LINE.
- ⑮ INSTALL 4" LONG CONCRETE WHEEL STOP. REFER TO ARCHITECTURAL PLAN.
- ⑯ INSTALL 4" AC PAVEMENT OVER 5" CLASS II BASE TO LIMITS SHOWN.
- ⑰ INSTALL TRUNCATED DOME PER ARCHITECTURAL PLAN.
- ⑳ INSTALL 5" DIA. CONCRETE MANHOLE WITH 36" TRAFFIC RATED GRATE WITH FLOGARD 36" INSERT FILTER OR APPROVED EQUAL. (REFER TO UTILITY PLAN). PROTECT EXISTING FENCE IN PLACE.
- ㉑ CONSTRUCT 6' HIGH BLOCK WALL TO LIMITS SHOWN. UNDER SEPARATE PERMIT.
- ㉒ CONSTRUCT 6' WIDE ADA PATH OF TRAVEL. DECORATIVE PAVERS PER ARCHITECTURAL PLAN.
- ㉓ ADA PATH OF TRAVEL SHOWN THUSLY. ●●●● 2% MAX. CROSS FALL.
- ㉔ REFER TO ARCHITECTURAL PLAN - TYPICAL.
- ㉕ INSTALL 6' HIGH CHAINLINK FENCE TO LIMITS SHOWN.
- ㉖ INSTALL 38" WIDE ELECTRICAL POWERED ROLLING GATE (REFER TO ARCHITECTURAL PLAN).
- ㉗ GRADE BREAK LINE.
- ㉘ INSTALL 5 LINEAR FEET OF STORM DRAIN PIPE WITH END CAP.
- ㉙ EDGE OF PROPOSED PAVEMENT.
- ㉚ CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS. CONTRACTOR TO PAINT TRASH ENCLOSURE A COMBINATION OF TWO PAINT COLORS TO BE DETERMINED BY DISTRICT STAFF. PAINT IS TO BE SHERWIN WILLIAMS EMERALD EXTERIOR ACRYLIC LATEX OR APPROVED EQUAL.
- ㉛ INSTALL EV CHARGING STATION PEDESTAL. REFER TO ARCHITECTURAL PLAN.
- ㉜ PLANTER AREA. REFER TO ARCHITECTURAL PLANS FOR LANDSCAPE INFO.
- ㉝ EXTENDED FOOTING. REFER TO ARCHITECTURAL FOUNDATION PLAN FOR DETAIL.
- ㉞ UNDER SIDEWALK DRAIN.
- ㉟ RELOCATED FIRE HYDRANT. REFER TO UTILITY PLAN.
- ㊱ INSTALL DROP INLET. REFER TO UTILITY PLAN.
- ㊲ FIRE LINE CONNECTION. REFER TO UTILITY PLAN.
- ㊳ EXISTING FIRE HYDRANT TO BE RELOCATED BY OTHERS.
- ㊴ REFER TO UTILITY PLAN.
- ㊵ ARCHITECTURAL COLUMN. SEE ARCHITECTURAL PLAN.
- ㊶ INSTALL ADA PARKING SIGN PER ARCHITECTURAL PLAN.
- ㊷ PROPOSED ELECTRICAL TRANSFORMER. SEE UTILITY PLAN.
- ㊸ TO BE REMOVED.
- ㊹ TREES TO BE REMOVED. TYPICAL OF (4).
- ㊺ REMOVE TO A DEPTH OF 2' AND CAP.

BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD. FROM THE INTERSECTION OF PHELAN RD. 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD. 34 FT EAST OF THE CENTER LINE OF JOHNSON RD. 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD. 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE. 0.6 FT EAST OF A WITNESS POST. ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
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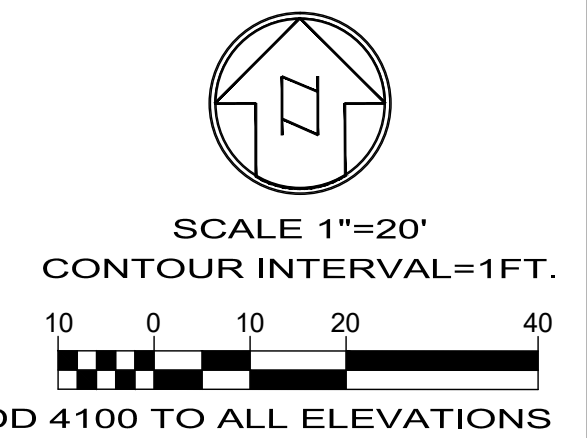


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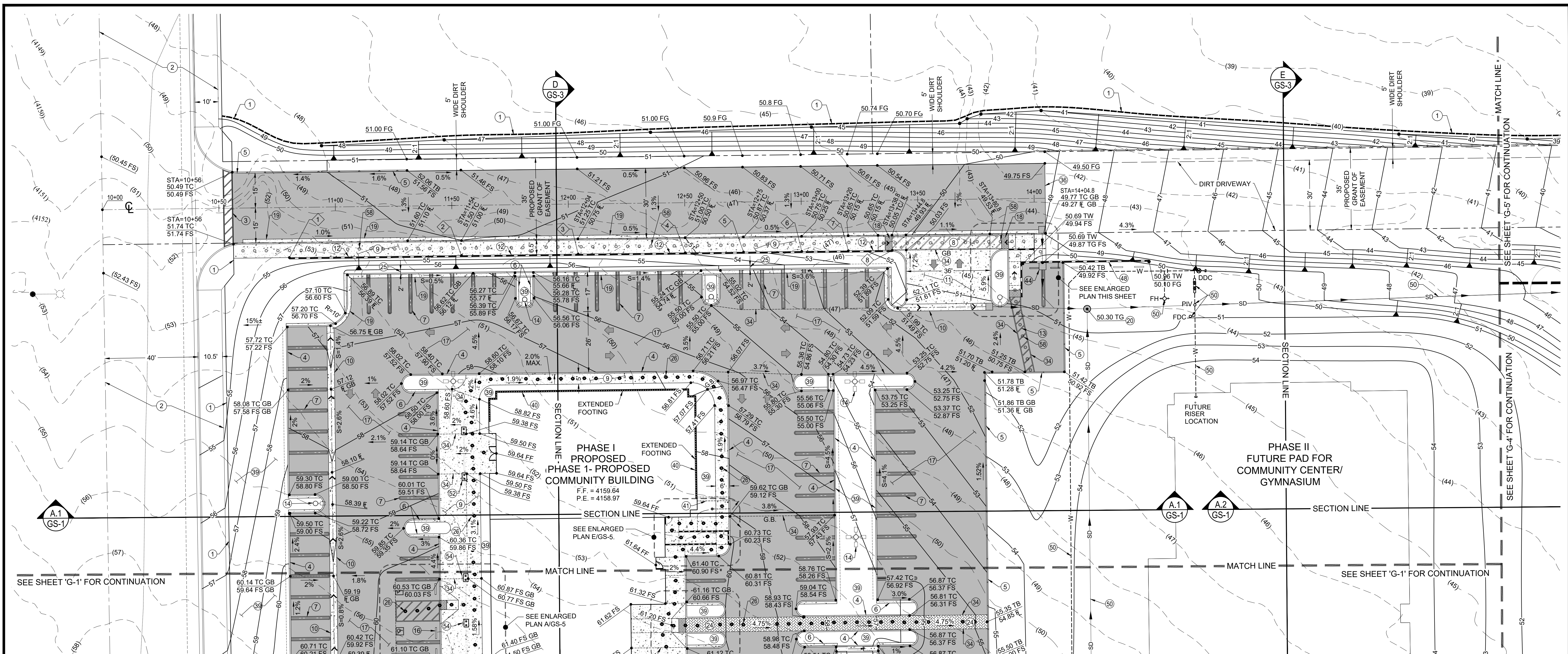
**COUNTY OF SAN BERNARDINO
 DEPARTMENT OF PUBLIC WORKS**

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS	DIRECTOR OF PUBLIC WORKS	

<ul style="list-style-type: none"> • GRAD-2021-00235 • PRAA-2021-00040 • DRNSTY-2021-00054 	<ul style="list-style-type: none"> • SIP-2021-00031 • NEWNR-2021-00230 • WQMP-2021-00153
DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD. PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)
DESIGNED BY: DATE:	APPROVED BY: DATE:
SHEET 3 OF 25	SCALE: AS SHOWN SHEET G-1

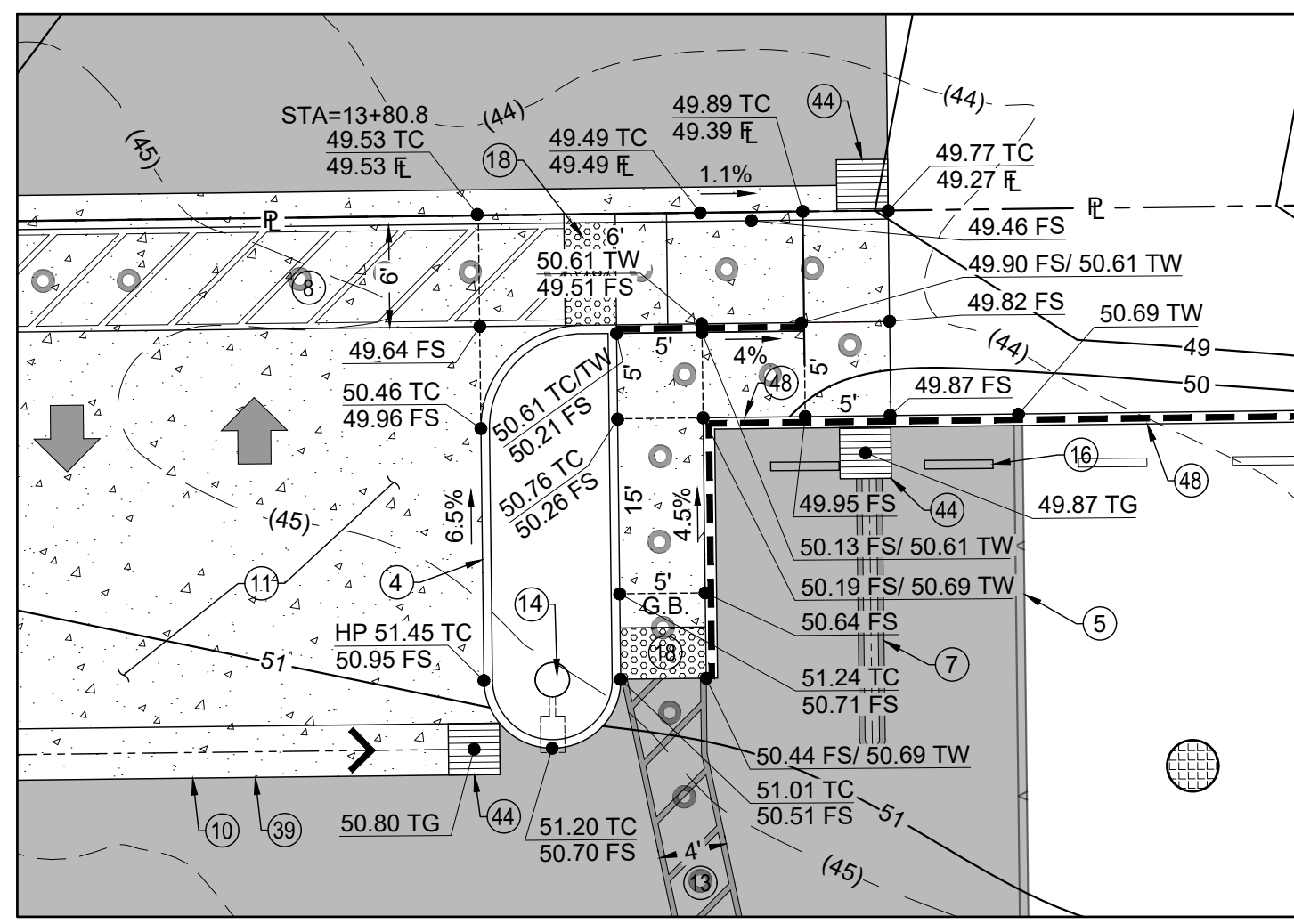


WDID# 6B36C401591



SEE SHEET 'G-1' FOR CONTINUATION

SEE SHEET 'G-1' FOR CONTINUATION



ENLARGED PLAN
SCALE= 1"= 10'

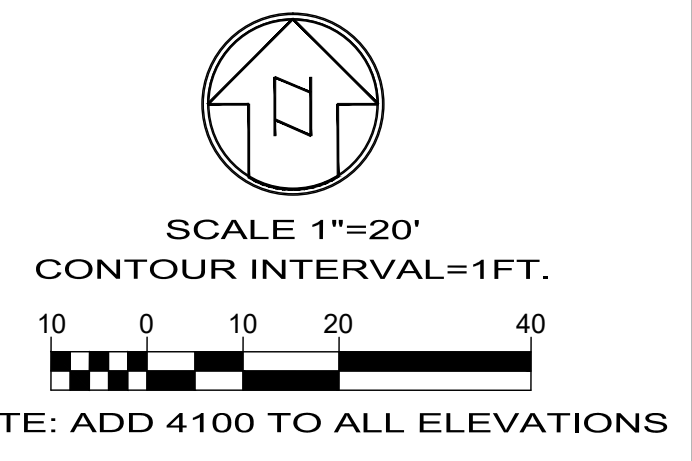
RETAINING WALL LEGEND

TW= TOP OF WALL
TF= TOP OF FOOTING

CALLOUT	ELEVATION	STATION
1	55.36 TW 50.67 TF	STA=10+80
2	55.36 TW 50.67 TF	STA=11+54
3	55.36 TW 50.67 TF	STA=12+04
4	55.36 TW 54.67 TF 50.00 TF	STA=12+50
5	54.67 TW 54.00 TW 50.00 TF	STA=12+75
6	54.00 TW 53.33 TW 50.00 TF 49.33 TF	STA=13+00
7	53.33 TW 52.60 TW 49.33 TF	STA=13+20
8	52.67 TW 49.33 TF	STA=13+88.8

CONSTRUCTION NOTES

- PHASE 1 GRADING LIMITS.
- STREET IMPROVEMENTS BY OTHERS. STREET IMPROVEMENTS PLANS UNDER SEPARATE PERMIT. SIP-2021-00031.
- MATCH EXISTING.
- CONSTRUCT A1-6 HIGH CONCRETE CURB PER SPPWC STD. 120-2.
- CONSTRUCT D1-6 6" HIGH ASPHALT BERM TO LIMITS SHOWN PER SPPWC STD. 120-2.
- CONSTRUCT 12" WIDE CONCRETE WALK AT BACK OF CURB PER DETAIL "A" SHOWN ON SHEET G-3.
- INSTALL PAINT STRIPING AND SYMBOLS PER ARCHITECTURAL PLAN.
- INSTALL 6" WIDE ADA PATH OF TRAVEL STRIPING.
- CONSTRUCT 4" THICK CONCRETE SIDEWALK TO LIMITS SHOWN. CROSS SLOPE TO BE 2.0% MAX.
- CONSTRUCT 3" WIDE CONCRETE V-GUTTER PER SBCO STD. 125
- CONSTRUCT 6" THICK CONCRETE PAVEMENT TO LIMITS SHOWN
- CONSTRUCT 8" BLOCK RETAINING WALL TO LIMITS SHOWN. UNDER SEPARATE PERMIT.
- INSTALL 4" WIDE ADA PATH OF TRAVEL WITH STRIPING TO LIMITS SHOWN (CROSS SLOPE MAX = 1.75%)
- INSTALL PARKING AREA LIGHT STANDARD PER ARCHITECTURAL PLAN.
- INSTALL 4' LONG CONCRETE WHEEL STOP. REFER TO ARCHITECTURAL PLAN.
- INSTALL 4" AC PAVEMENT OVER 5" CLASS II BASE TO LIMITS SHOWN.
- INSTALL TRUNCATED DOME PER ARCHITECTURAL PLAN.
- CONSTRUCT 6" CURB & GUTTER PER SBCO STD. 116 TO LIMITS SHOWN.
- INSTALL 5" DIA. CONCRETE MANHOLE WITH 36" TRAFFIC RATED GRATE WITH FLOGARD 36" INSERT FILTER OR APPROVED EQUAL. (REFER TO UTILITY PLAN).
- CONSTRUCT 6" WIDE ADA PATH OF TRAVEL. DECORATIVE PAVERS PER ARCHITECTURAL PLAN.
- CONTRACTOR TO MAINTAIN TOP OR TOE OF SLOPE A MINIMUM OF 2-FEET FROM BACK OF CURB.
- ADA PATH OF TRAVEL SHOWN THUSLY. ●●●●
- GRADE BREAK LINE.
- EDGE OF PROPOSED PAVEMENT.
- PLANTER AREA. REFER TO ARCHITECTURAL PLANS FOR LANDSCAPE INFO.
- EXTENDED FOOTING. REFER TO ARCHITECTURAL FOUNDATION PLAN FOR DETAIL.
- UNDER SIDEWALK DRAIN.
- INSTALL DROP INLET. REFER TO UTILITY PLAN.
- CONSTRUCT 0.5' HIGH TO 2.0' HIGH 6" THICK BLOCK WALL TO LIMITS SHOWN. REFER TO UTILITY PLAN.
- ARCHITECTURAL COLUMN. SEE ARCHITECTURAL PLAN.
- CONSTRUCT VARIABLE HEIGHT 0" TO 6" CURB TO LIMITS SHOWN.
- INSTALL ADA PARKING SIGN PER ARCHITECTURAL PLAN.
- FUTURE PATH OF TRAVEL.



WDID# 6B36C401591

BENCHMARK:
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
ELEV= 3613.45'



PLANS PREPARED BY:
TRLS ENGINEERING Inc.
10770 I AVENUE, SUITE 108
Hesperia, CA 92345
Phone: (760) 948-4900

**COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS**

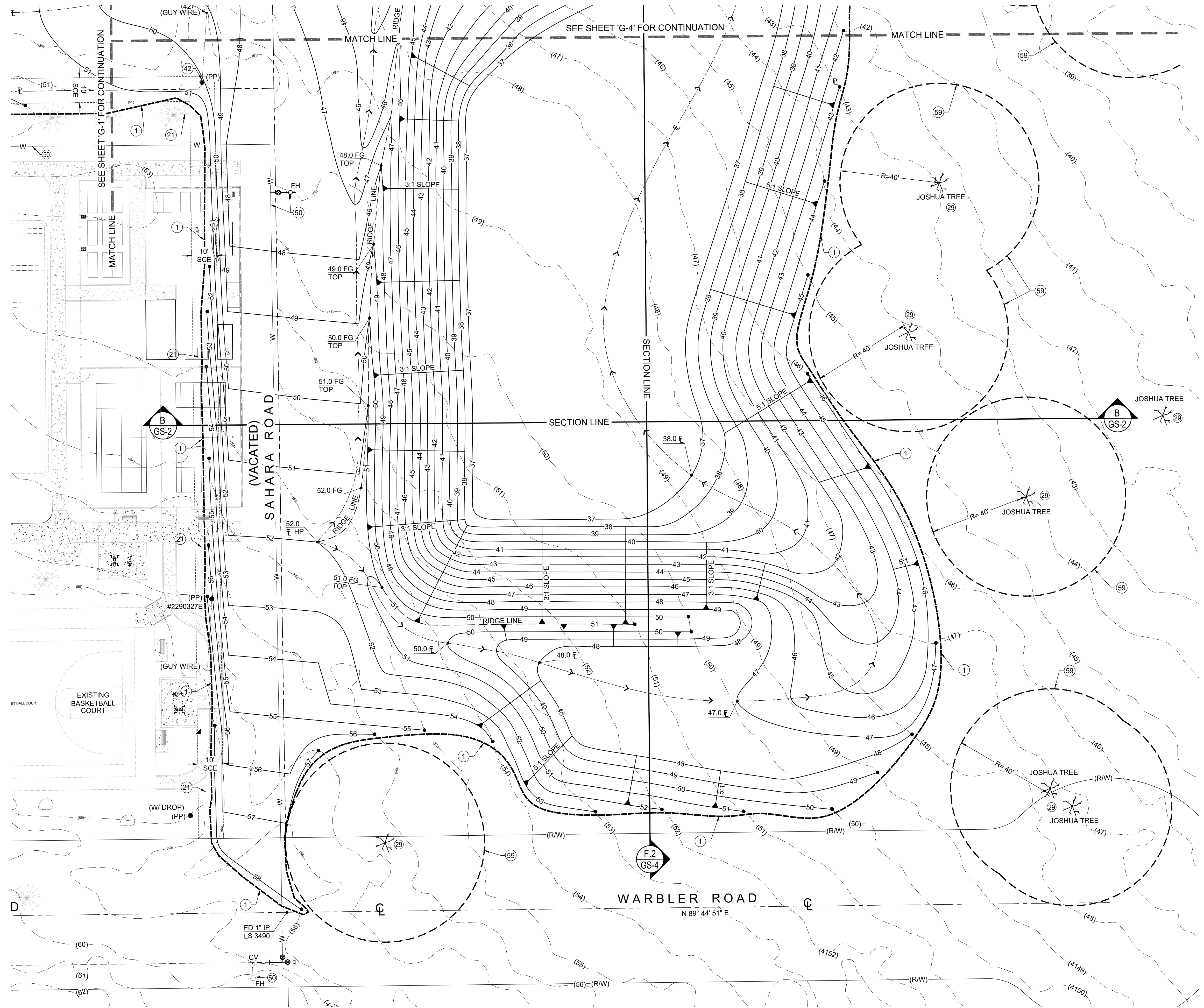
DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	

<ul style="list-style-type: none"> GRAD-2021-00235 PRAA-2021-00040 DRNSTY-2021-00054 	<ul style="list-style-type: none"> SIP-2021-00031 NEWNR-2021-00230 WQMP-2021-00153 	SCALE: AS SHOWN SHEET 4 OF 25 SHEET G-2
DRAWN BY: TRLS DATE: 09-03-2024 DESIGNED BY: TER DATE: APPROVED BY: _____ DATE:		PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18) GRADING PLAN



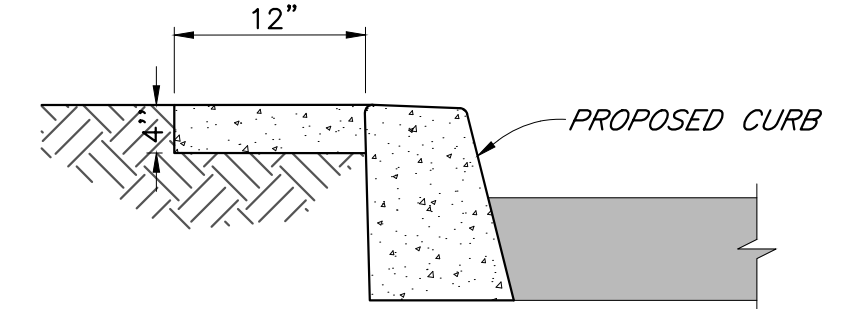
NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

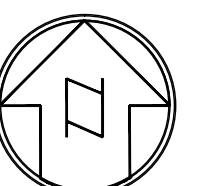


CONSTRUCTION NOTES

- ① PHASE 1 GRADING LIMITS.
- ②1 PROTECT EXISTING FENCE IN PLACE.
- ②9 PROTECT EXISTING JOSHUA TREES IN PLACE.
- ④2 PROTECT IN PLACE.
- ⑥0 REFER TO UTILITY PLAN.
- ⑥9 CONTRACTOR MUST MAINTAIN A 40 FOOT UNDISTURBED PERIMETER AROUND ALL JOSHUA TREES



DETAIL "A" - WALK @ BACK OF CURB
NOT TO SCALE



SCALE 1"=20'
CONTOUR INTERVAL=1FT.

WDID# 6B36C401591

- GRAD-2021-00235
- PRAA-2021-00040
- DRNSTY-2021-00054
- SIP-2021-00031
- NEWNR-2021-00230
- WQMP-2021-00153

BENCHMARK:
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
ELEV= 3613.45'



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Hesperia, CA 92345
Phone: (760) 948-4900

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

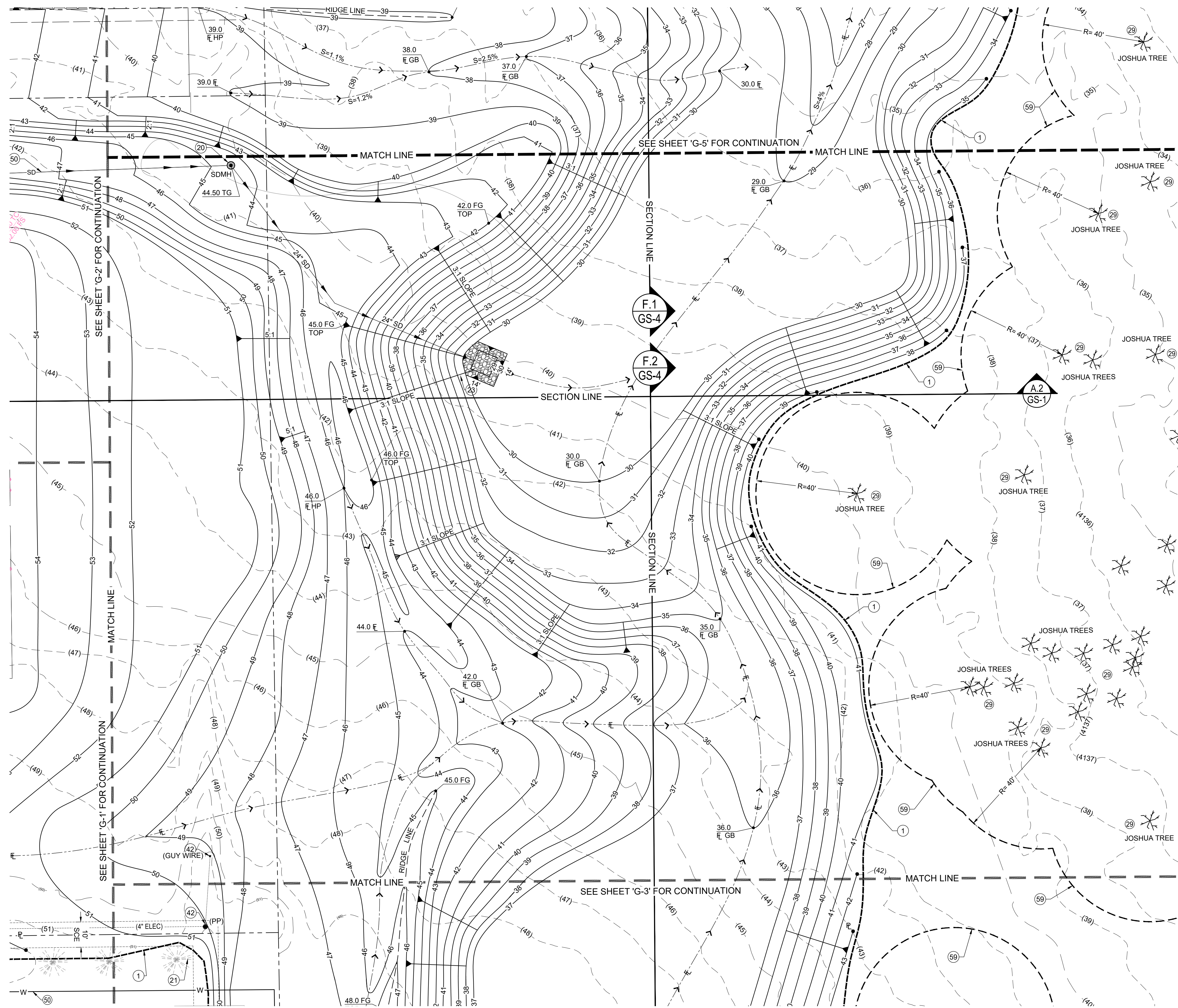
DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	
		DATE	

DRAWN BY: TRLS DATE: 09-03-2024	DISTRICT: PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT	SCALE: AS SHOWN
DESIGNED BY: TER DATE:	PHASE 1 CIVIC CENTER DEVELOPMENT	SHEET 5 OF 25
APPROVED BY: DATE:	9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)	SHEET G-3
GRADING PLAN		

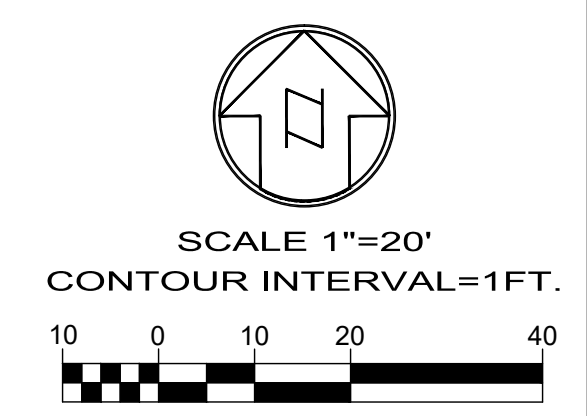


NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26



- ### CONSTRUCTION NOTES
- 1 PHASE 1 GRADING LIMITS.
 - 20 INSTALL 5' DIA. CONCRETE MANHOLE WITH 36" TRAFFIC RATED GRATE WITH FLOGARD 36" INSERT FILTER OR APPROVED EQUAL. (REFER TO UTILITY PLAN).
 - 21 PROTECT EXISTING FENCE IN PLACE.
 - 23 INSTALL 4" RIP RAP ROCK TO A DEPTH OF 18" TO LIMITS SHOWN.
 - 29 PROTECT EXISTING JOSHUA TREES IN PLACE.
 - 42 PROTECT IN PLACE.
 - 59 CONTRACTOR MUST MAINTAIN A 40 FOOT UNDISTURBED PERIMETER AROUND ALL JOSHUA TREES



WDID# 6B36C401591

- GRAD-2021-00235
- SIP-2021-00031
- PRAA-2021-00040
- NEWNR-2021-00230
- DRNSTY-2021-00054
- WQMP-2021-00153

BENCHMARK:
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
ELEV= 3613.45'

NO.	REVISION	DATE	BY


 JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

PLANS PREPARED BY:
TRLS ENGINEERING Inc.
 10770 1 AVENUE, SUITE 108
 Hesperia, CA 92345
 Phone: (760) 948-4900

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	

PHELAN PINON HILLS
 COMMUNITY SERVICES DISTRICT
 CIVIC CENTER DEVELOPMENT
 PHASE 1
 9535 SHEEPCREEK RD, PHELAN, CA. 92329
 (APN: 3066-261-10 & 3066-251-18)

SCALE:
AS SHOWN

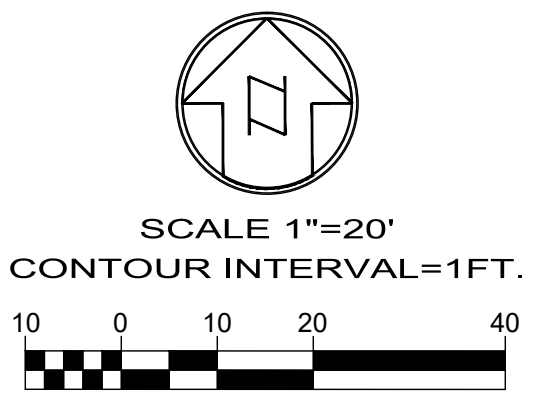
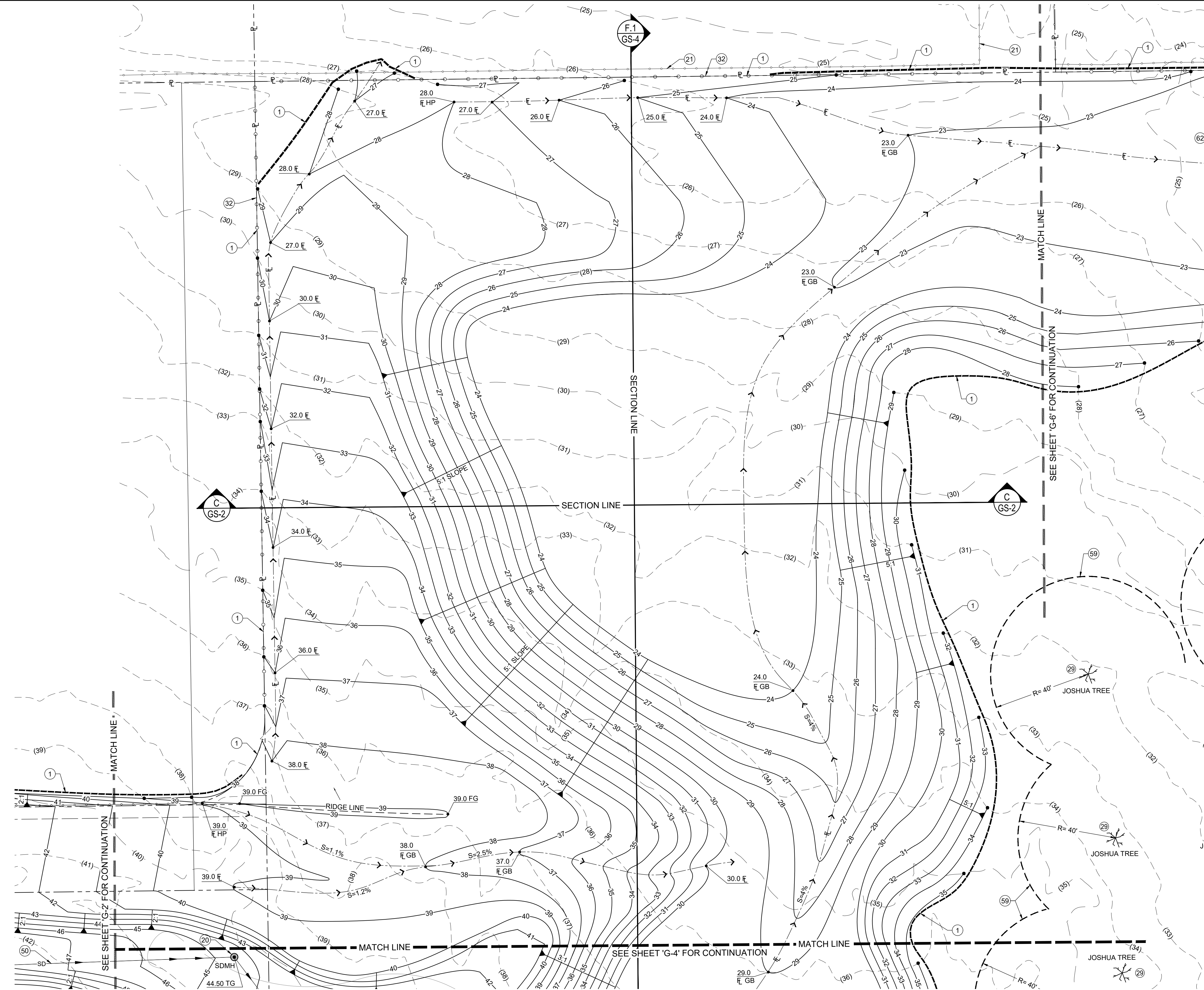
SHEET
6 OF 25

SHEET
G-4



CONSTRUCTION NOTES

- ① PHASE 1 GRADING LIMITS.
- ②0 INSTALL 5' DIA. CONCRETE MANHOLE WITH 36" TRAFFIC RATED GRATE WITH FLOGARD 36" INSERT FILTER OR APPROVED EQUAL. (REFER TO UTILITY PLAN).
- ②1 PROTECT EXISTING FENCE IN PLACE.
- ②6 PROTECT EXISTING JOSHUA TREES IN PLACE.
- ③2 INSTALL 6' HIGH CHAINLINK FENCE TO LIMITS SHOWN.
- ⑤9 CONTRACTOR MUST MAINTAIN A 40 FOOT UNDISTURBED PERIMETER AROUND ALL JOSHUA TREES




WDID# 6B36C401591

<ul style="list-style-type: none"> • GRAD-2021-00235 • PRAA-2021-00040 • DRNSTY-2021-00054 	<ul style="list-style-type: none"> • SIP-2021-00031 • NEWNR-2021-00230 • WQMP-2021-00153
DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)
DESIGNED BY: TER DATE:	ASST. DIRECTOR OF PUBLIC WORKS
APPROVED BY:	DIRECTOR OF PUBLIC WORKS
DATE:	DATE:
SCALE: AS SHOWN	SHEET 7 OF 25
SHEET G-5	GRADING PLAN

BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
 ELEV= 3613.45'

NO.	REVISION	DATE	BY

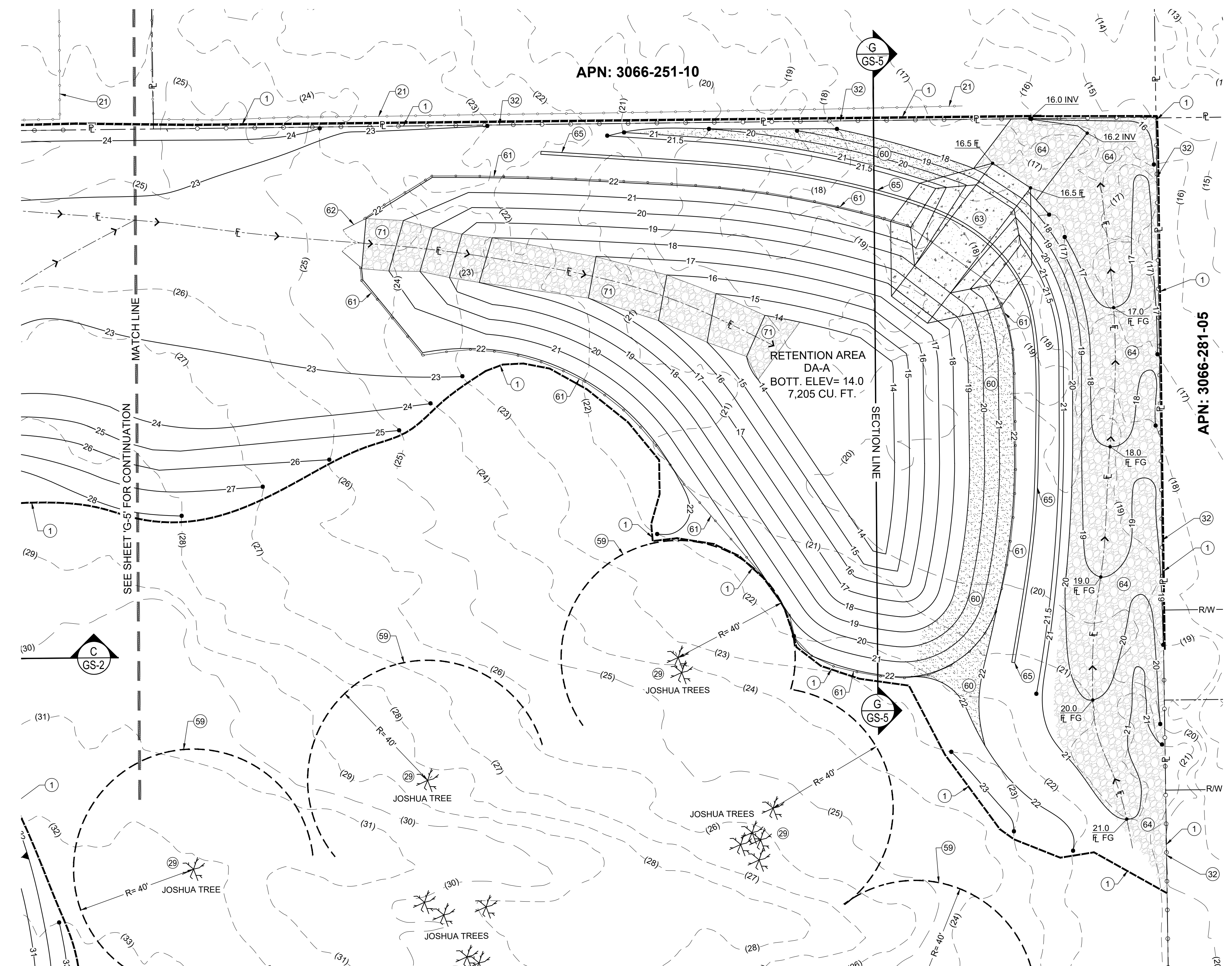
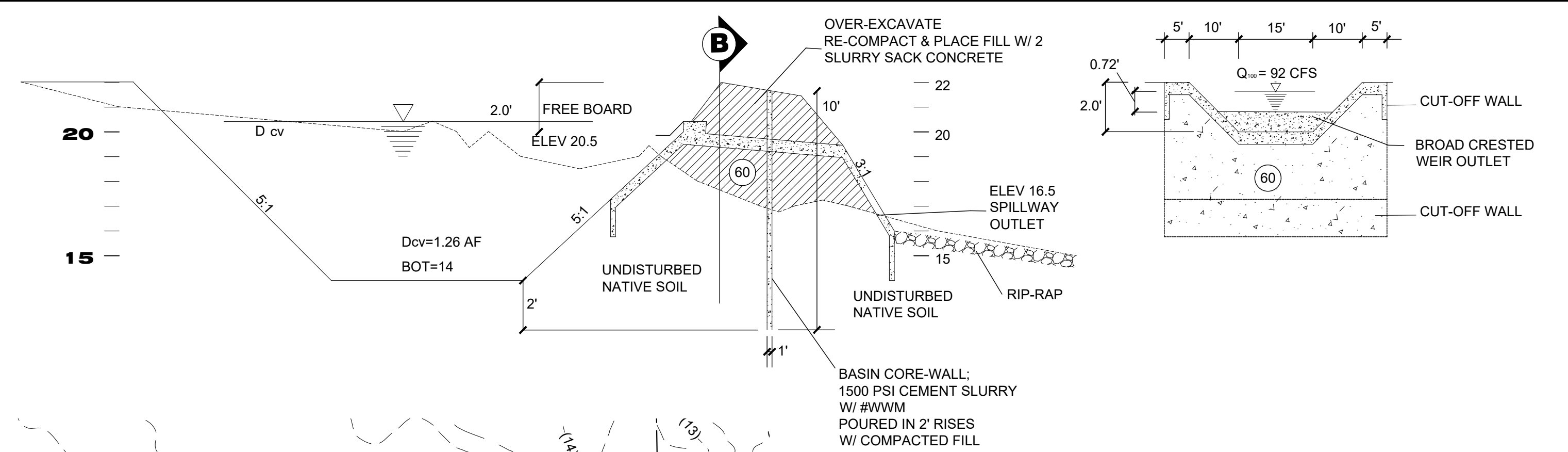

 Jerry L. Miles
 No. C 42593
 Civil
 STATE OF CALIFORNIA
 JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

PLANS PREPARED BY:
TRLS ENGINEERING Inc.
 10770 1 AVENUE, SUITE 108
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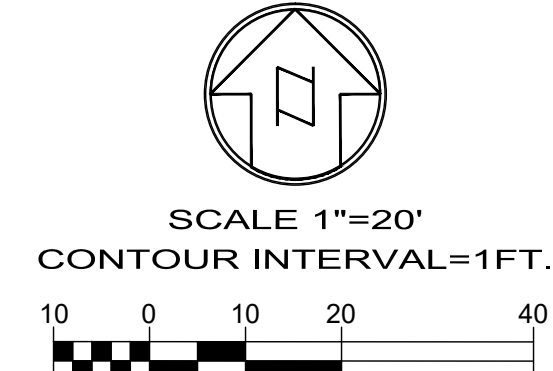
COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	DATE





- CONSTRUCTION NOTES**
- (1) PHASE 1 GRADING LIMITS.
 - (21) PROTECT EXISTING FENCE IN PLACE.
 - (22) PROTECT EXISTING JOSHUA TREES IN PLACE.
 - (23) INSTALL 6' HIGH CHAINLINK FENCE TO LIMITS SHOWN.
 - (24) CONTRACTOR MUST MAINTAIN A 40 FOOT UNDISTURBED PERIMETER AROUND ALL JOSHUA TREES
 - (25) INSTALL 2 SACK SLURRY SOIL CEMENT TO LIMITS SHOWN.
 - (26) INSTALL 6' HIGH DECORATIVE WROUGHT IRON FENCE TO LIMITS SHOWN.
 - (27) INSTALL 16' WIDE DOUBLE DECORATIVE WROUGHT IRON SWING GATE.
 - (28) CONSTRUCT 6" THICK CONCRETE SPILLWAY PER DETAIL THIS SHEET.
 - (29) 2" TO 4" RIP RAP ROCK X 6" DEEP TO LIMITS SHOWN.
 - (30) CONSTRUCT 12" WIDE BASIN CORE WALL PER DETAIL THIS SHEET.
 - (31) 2" TO 4" RIP RAP ROCK GROUTED 12" DEEP TO LIMITS SHOWN.



WDID# 6B36C401591

BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
 ELEV= 3613.45'

NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

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 10770 1 AVENUE, SUITE 108
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COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	

DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)	SCALE: AS SHOWN SHEET 8 OF 25 SHEET G-6
DESIGNED BY: DATE:	APPROVED BY: DATE:	APPROVED BY: DATE:



SHEEP CREEK ROAD

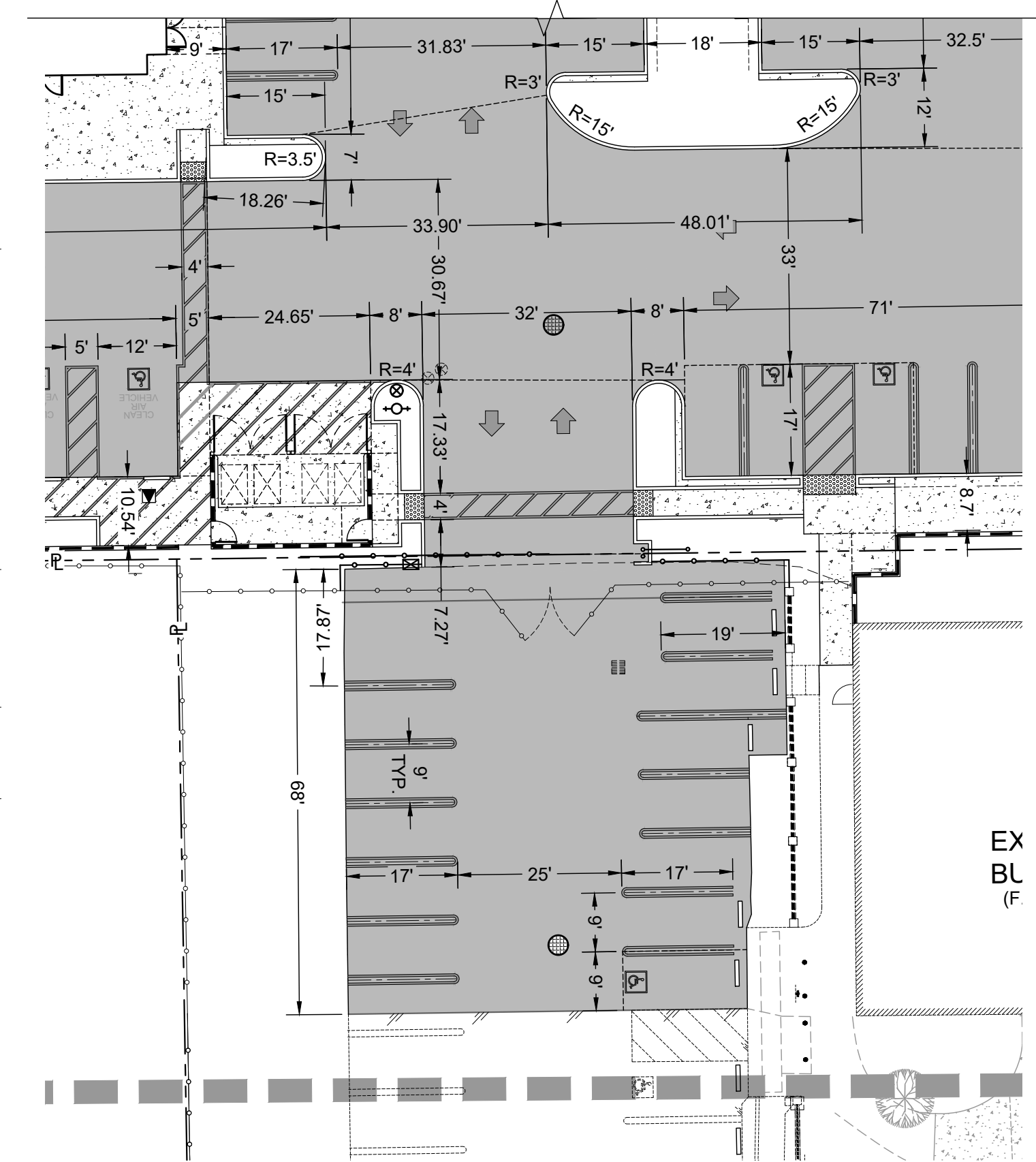
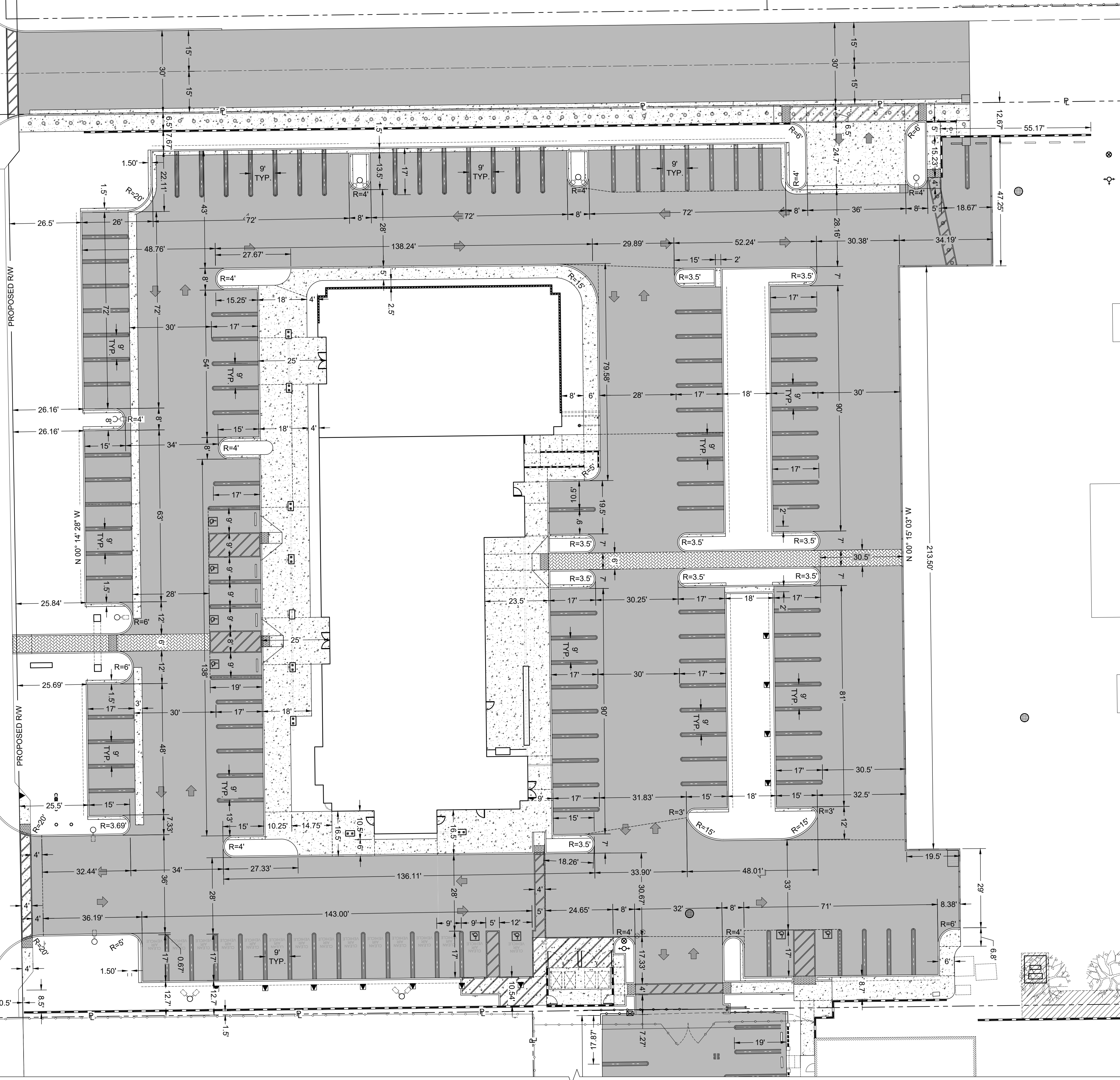
N 00° 33' 19" W

PROPOSED RW

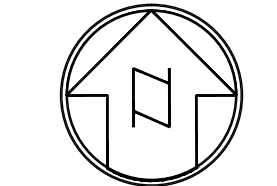
IDENTICAL POINT

FD COUNTY SURVEYOR MONUMENT TBM ELEV=4172.18

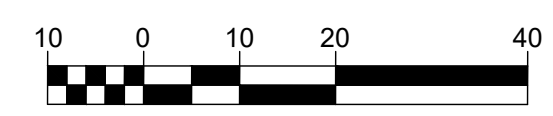
FD COUNTY SURVEYOR MONUMENT TBM ELEV= 4151.93



EX BL (F)



SCALE 1"=30'
CONTOUR INTERVAL=1FT.



WDID# 6B36C401591

BENCHMARK:
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
ELEV= 3613.45'



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COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	
		DATE	

- GRAD-2021-00235
- PRAA-2021-00040
- DRNSTY-2021-00054
- SIP-2021-00031
- NEWNR-2021-00230
- WQMP-2021-00153

DRAWN BY: TRLS
DATE: 09-03-2024
DESIGNED BY: TER
DATE:
APPROVED BY:
DATE:

PHELAN PINON HILLS
COMMUNITY SERVICES DISTRICT
CIVIC CENTER DEVELOPMENT
PHASE 1
9535 SHEEPCREEK RD, PHELAN, CA. 92329
(APN: 3066-261-10 & 3066-251-18)

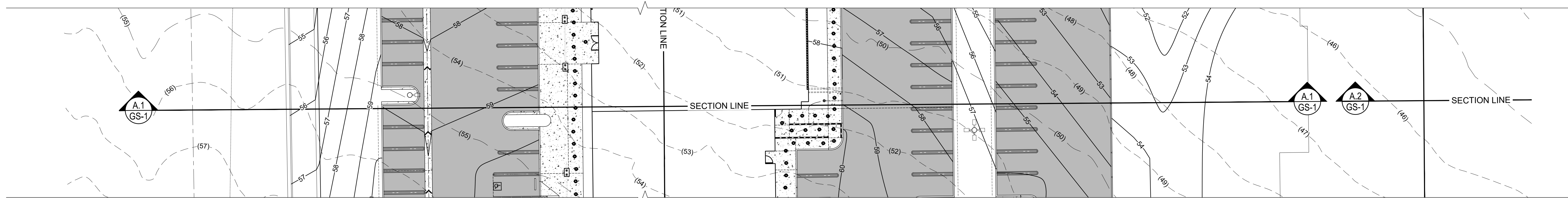
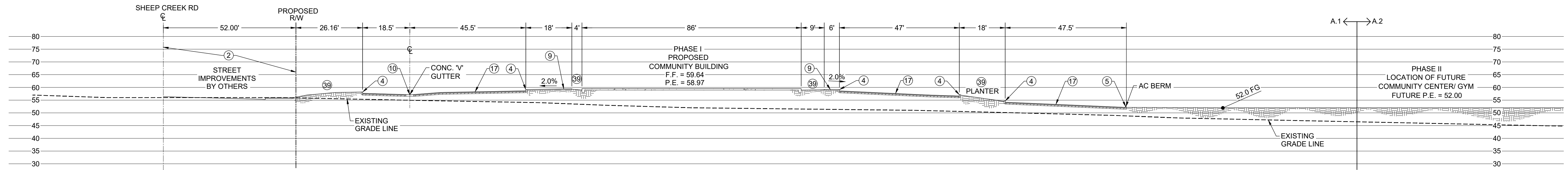
HORIZONTAL CONTROL PLAN

SCALE:
AS SHOWN
SHEET
9 OF 25
SHEET
HC-1

NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

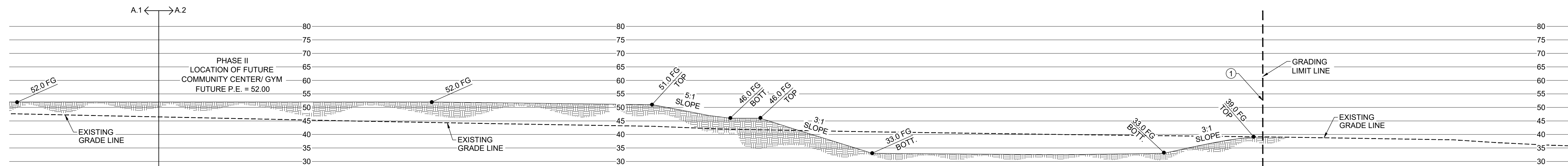




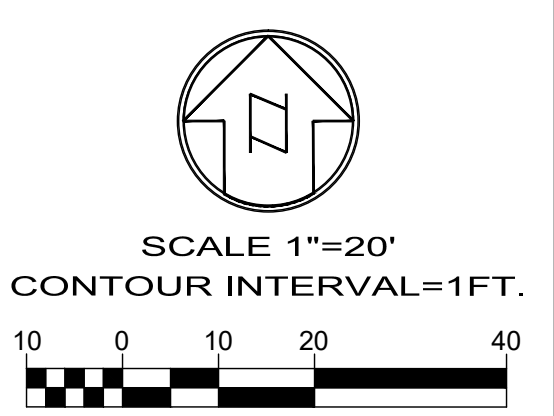
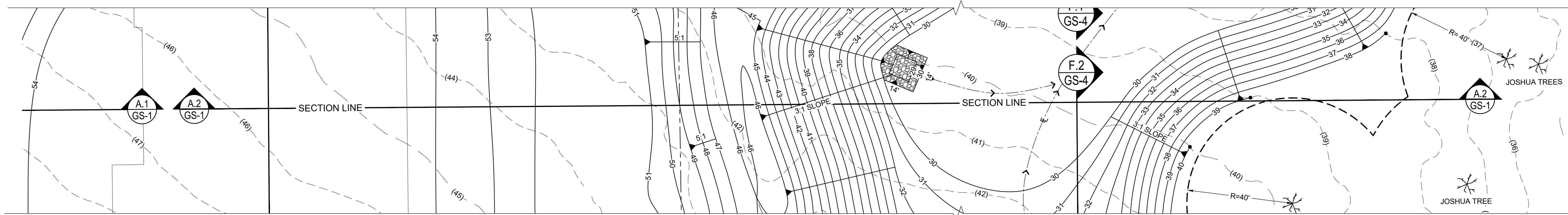
SECTION 'A.1'

CONSTRUCTION NOTES

- ① PHASE 1 GRADING LIMITS.
- ② STREET IMPROVEMENTS BY OTHERS. STREET IMPROVEMENTS PLANS UNDER SEPARATE PERMIT. SIP-2021-00031.
- ④ CONSTRUCT A1-6 HIGH CONCRETE CURB PER SPPWC STD. 120-2.
- ⑤ CONSTRUCT D1-6 6" HIGH ASPHALT BERM TO LIMITS SHOWN PER SPPWC STD. 120-2.
- ⑨ CONSTRUCT 4" THICK CONCRETE SIDEWALK TO LIMITS SHOWN. CROSS SLOPE TO BE 2.0% MAX.
- ⑩ CONSTRUCT 3" WIDE CONCRETE V-GUTTER PER SBCCO STD. 125.
- ⑰ INSTALL 4" AC PAVEMENT OVER 5" CLASS II BASE TO LIMITS SHOWN.
- ⑳ PLANTER AREA. REFER TO ARCHITECTURAL PLANS FOR LANDSCAPE INFO.
- ㉔ CONTRACTOR MUST MAINTAIN A 40 FOOT UNDISTURBED PERIMETER AROUND ALL JOSHUA TREES



SECTION 'A.2'



WDID# 6B36C401591



BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
 ELEV= 3613.45'

NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

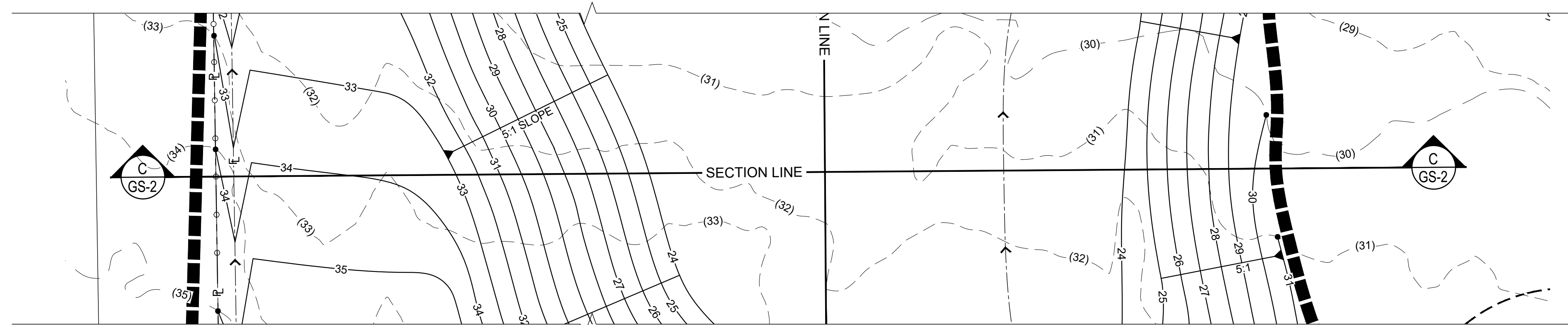
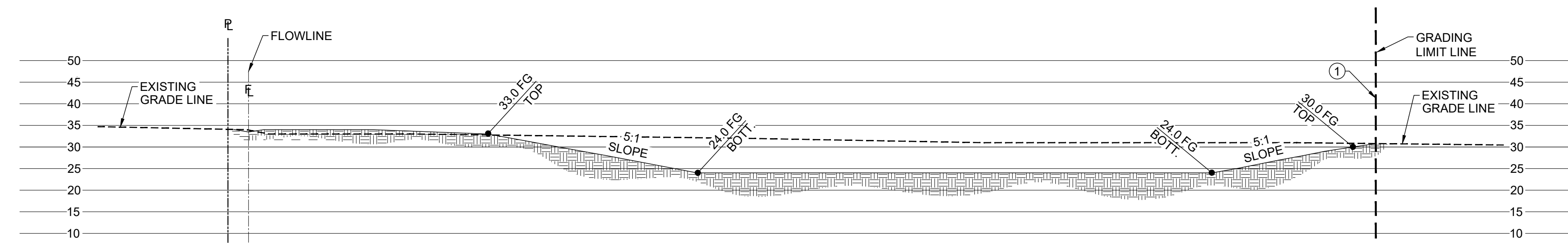


PLANS PREPARED BY:
TRLS ENGINEERING Inc.
 10770 1 AVENUE, SUITE 108
 Hesperia, CA 92345
 Phone: (760) 948-4900

**COUNTY OF SAN BERNARDINO
 DEPARTMENT OF PUBLIC WORKS**

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS	DIRECTOR OF PUBLIC WORKS	

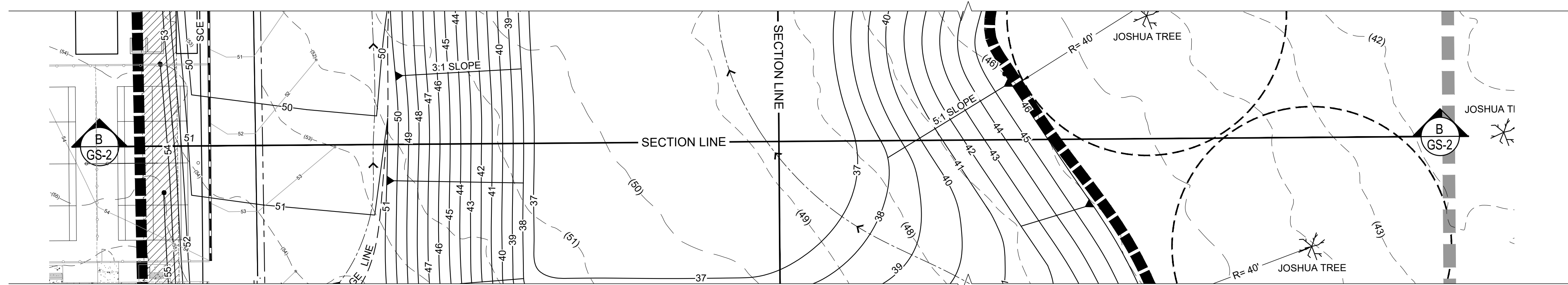
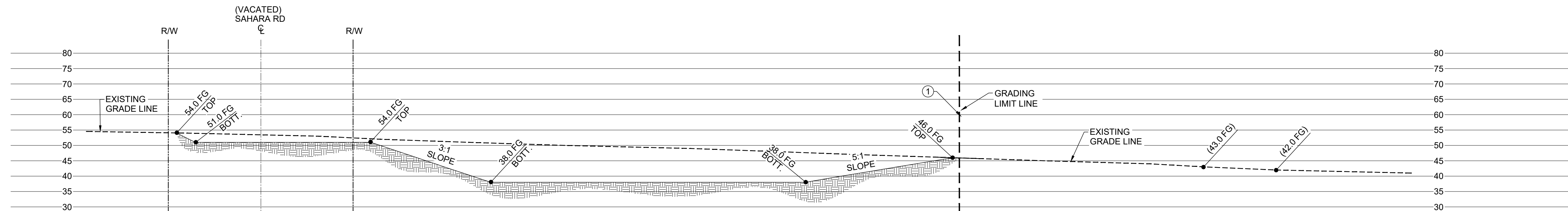
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DRAWN BY: TRLS DATE: 09-03-2024	
DESIGNED BY: TER DATE:	
APPROVED BY:	
PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)	
SCALE: AS SHOWN	SHEET 10 OF 25
SECTIONS	
GS-1	



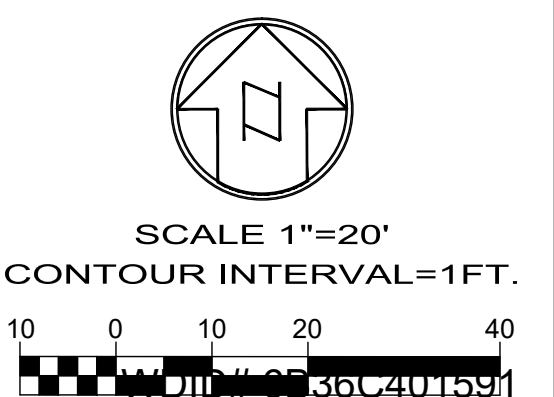
SECTION 'C'

CONSTRUCTION NOTES

① PHASE 1 GRADING LIMITS.



SECTION 'B'



BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
 ELEV= 3613.45'

NO.	REVISION	DATE	BY



JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

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COUNTY OF SAN BERNARDINO
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LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	

- GRAD-2021-00235
- PRAA-2021-00040
- DRNSTY-2021-00054
- SIP-2021-00031
- NEWNR-2021-00230
- WQMP-2021-00153

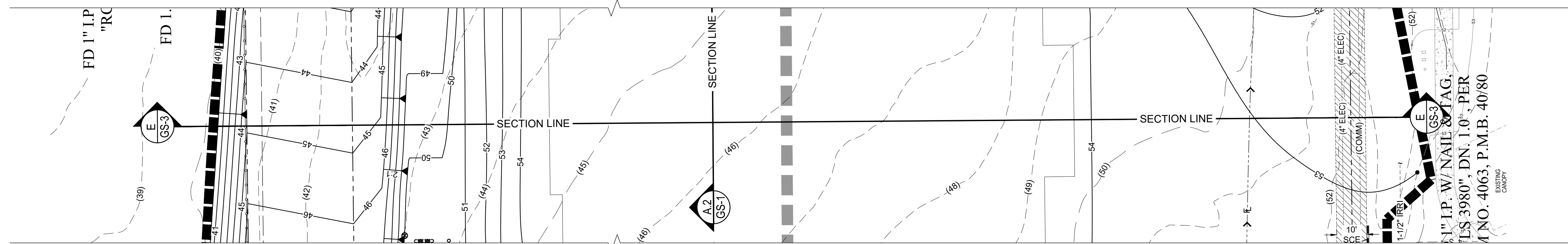
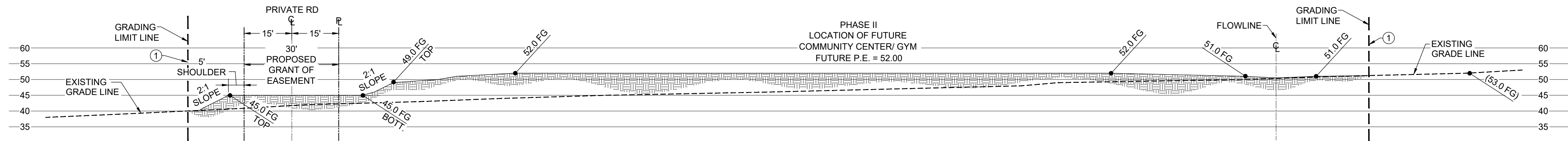
DRAWN BY: TRLS
 DATE: 09-03-2024
 DESIGNED BY: TER
 DATE:
 APPROVED BY:
 DATE:

PHELAN PINON HILLS
 COMMUNITY SERVICES DISTRICT
 CIVIC CENTER DEVELOPMENT
 PHASE 1
 9535 SHEEPCREEK RD, PHELAN, CA. 92329
 (APN: 3066-261-10 & 3066-251-18)

SECTIONS

SCALE:
 AS SHOWN
 SHEET
 11 OF 25
 SHEET
 GS-2

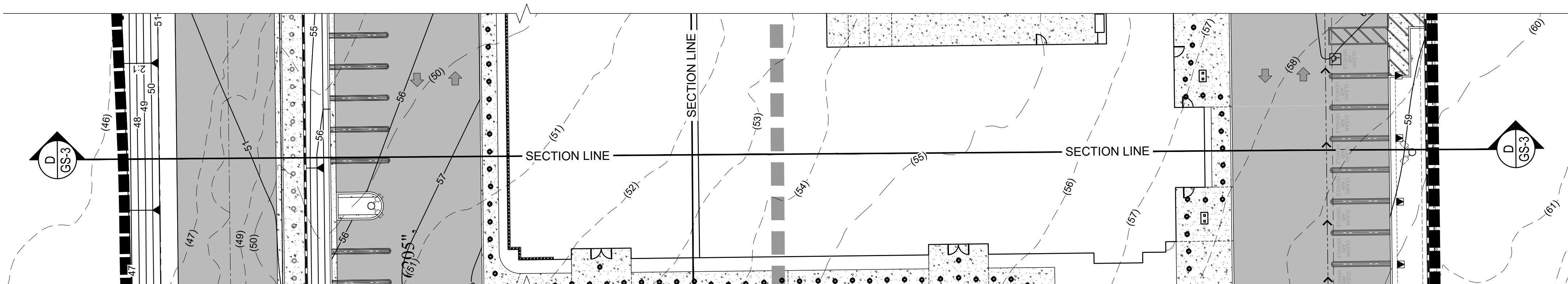
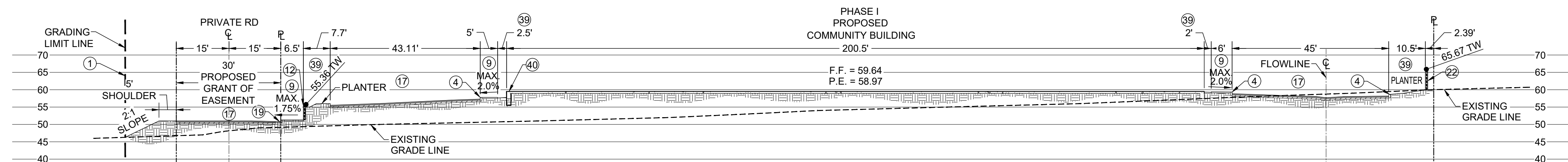




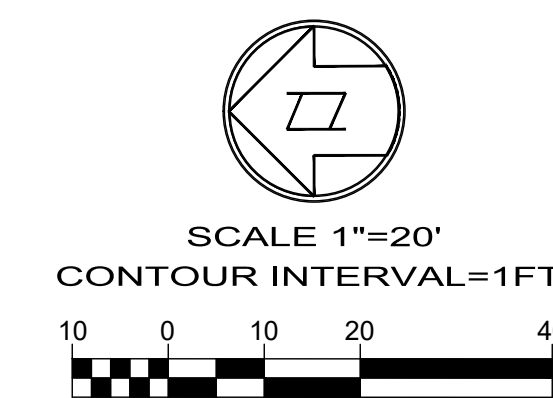
SECTION 'E'

CONSTRUCTION NOTES

- ① PHASE 1 GRADING LIMITS.
- ④ CONSTRUCT A1-6 HIGH CONCRETE CURB PER SPPWC STD. 120-2.
- ⑨ CONSTRUCT 4" THICK CONCRETE SIDEWALK TO LIMITS SHOWN. CROSS SLOPE TO BE 2.0% MAX.
- ⑫ CONSTRUCT 8" BLOCK RETAINING WALL TO LIMITS SHOWN.
- ⑰ INSTALL 4" AC PAVEMENT OVER 5" CLASS II BASE TO LIMITS SHOWN.
- ⑲ CONSTRUCT 6" CURB & GUTTER PER SBCCO STD. 116 TO LIMITS SHOWN.
- ⑳ CONSTRUCT 6" HIGH BLOCK WALL TO LIMITS SHOWN. UNDER SEPARATE PERMIT.
- ㉑ PLANTER AREA. REFER TO ARCHITECTURAL PLANS FOR LANDSCAPE INFO.
- ㉒ EXTENDED FOOTING. REFER TO ARCHITECTURAL FOUNDATION PLAN FOR DETAIL.



SECTION 'D'



WDID# 6B36C401591

BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
 ELEV= 3613.45'

NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

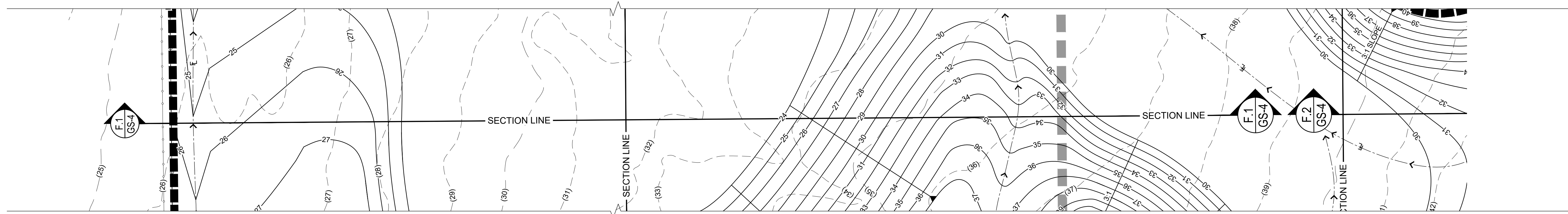
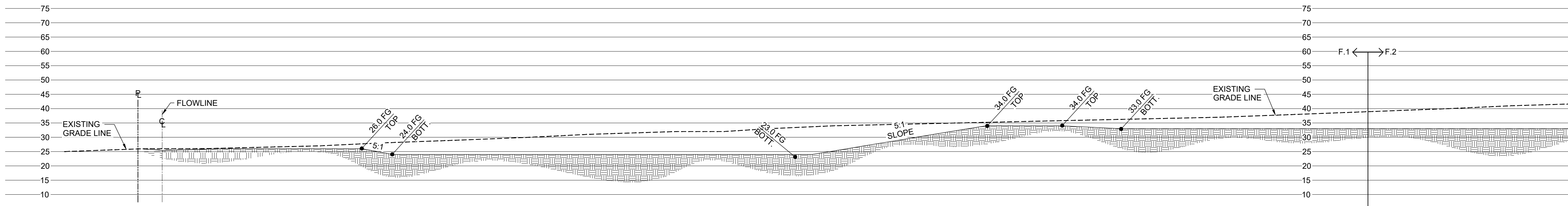
PLANS PREPARED BY:
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 10770 1 AVENUE, SUITE 108
 Hesperia, CA 92345
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COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

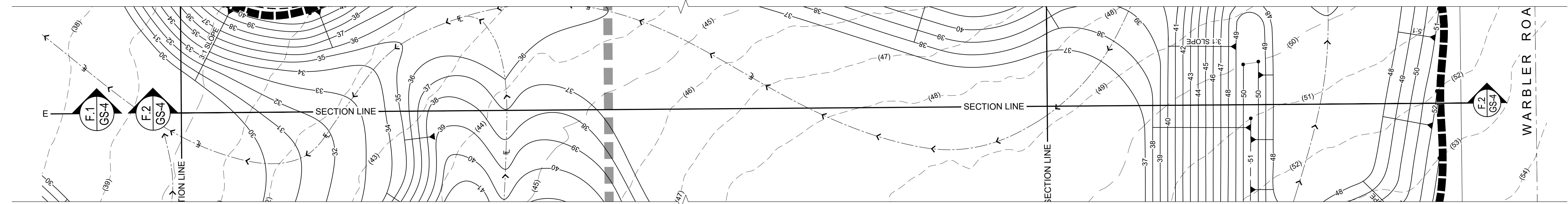
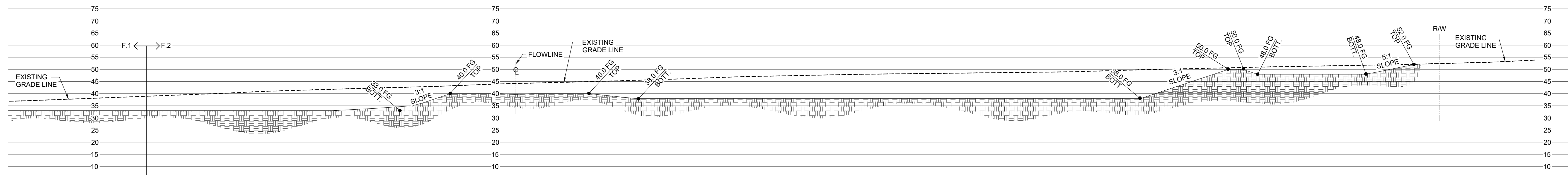
DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	

<ul style="list-style-type: none"> • GRAD-2021-00235 • PRAA-2021-00040 • DRNSTY-2021-00054 	<ul style="list-style-type: none"> • SIP-2021-00031 • NEWNR-2021-00230 • WQMP-2021-00153
DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)
DESIGNED BY: TER DATE:	SHEET 12 OF 25
APPROVED BY: DATE:	SHEET GS-3

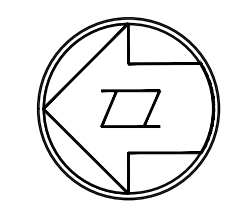




SECTION 'F.1'



SECTION 'F.2'



SCALE 1"=20'
CONTOUR INTERVAL=1FT.

WDID# 6B36C401591

- GRAD-2021-00235
- PRAA-2021-00040
- DRNSTY-2021-00054
- SIP-2021-00031
- NEWNR-2021-00230
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ELEV= 3613.45'

NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

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 Hesperia, CA 92345
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COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

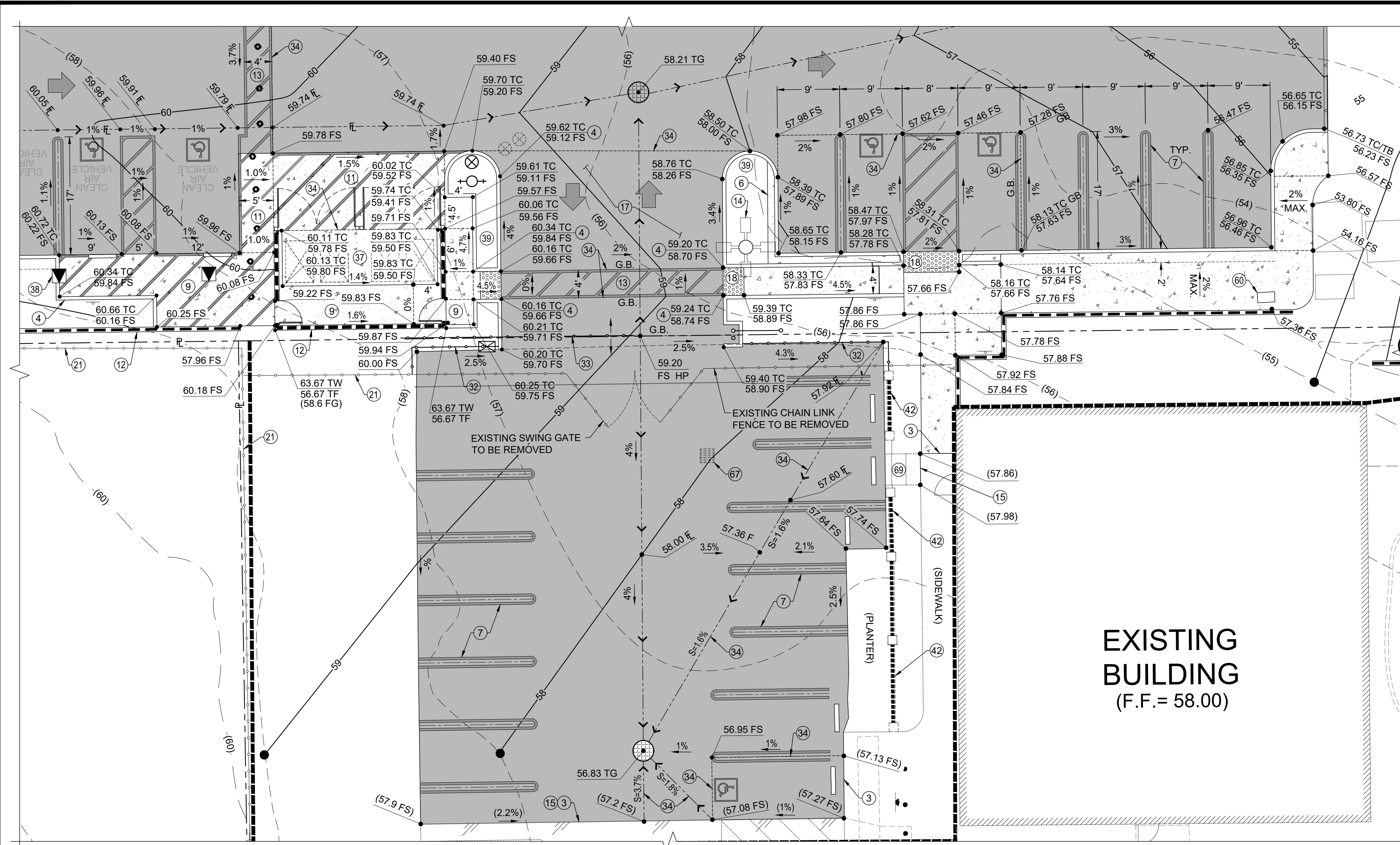
DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	

DRAWN BY:
 TRLS
 DATE:
 09-03-2024

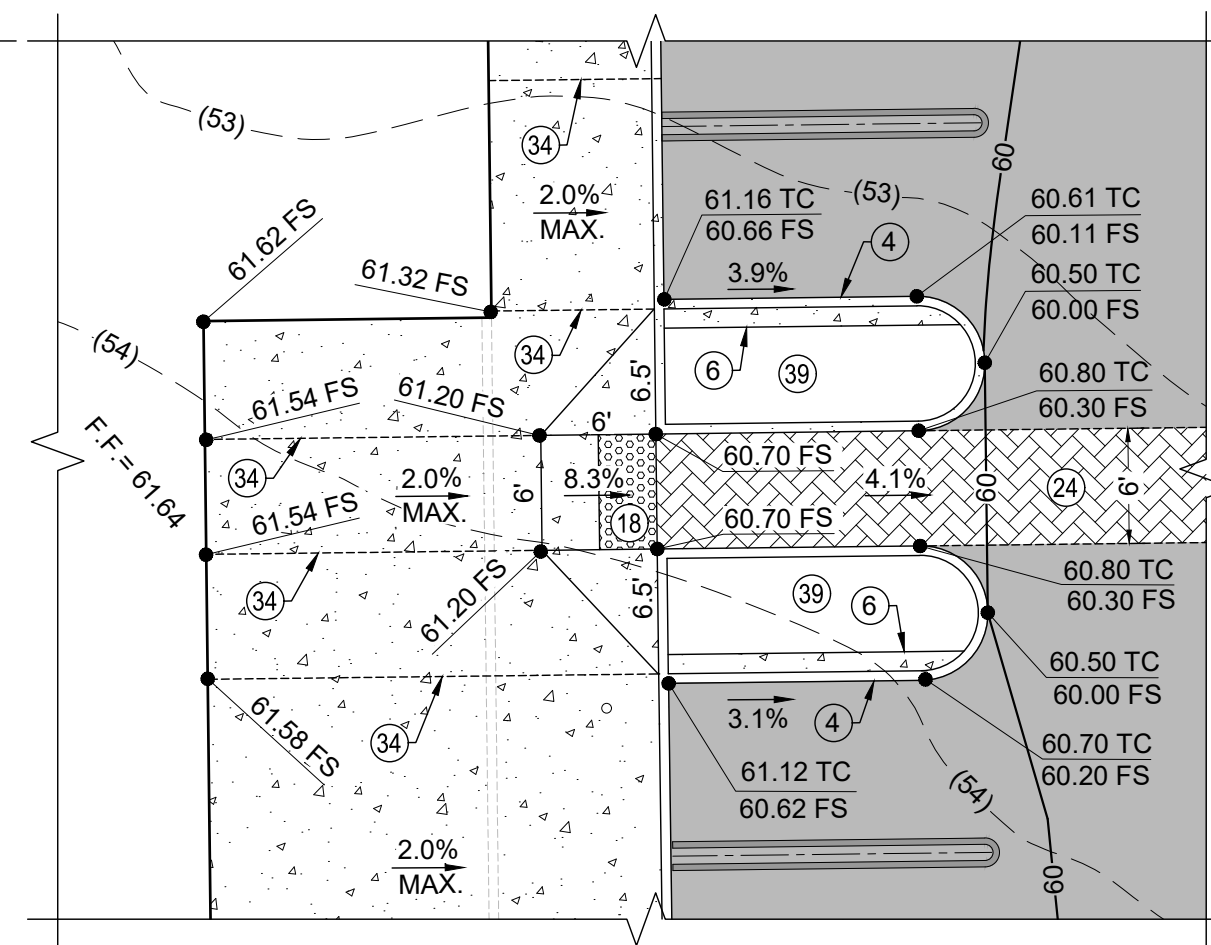
DESIGNED BY:
 TER
 DATE:
 APPROVED BY:
 DATE:

PHELAN PINON HILLS
COMMUNITY SERVICES DISTRICT
CIVIC CENTER DEVELOPMENT
PHASE 1
 9535 SHEEPCREEK RD, PHELAN, CA. 92329
 (APN: 3066-261-10 & 3066-251-18)

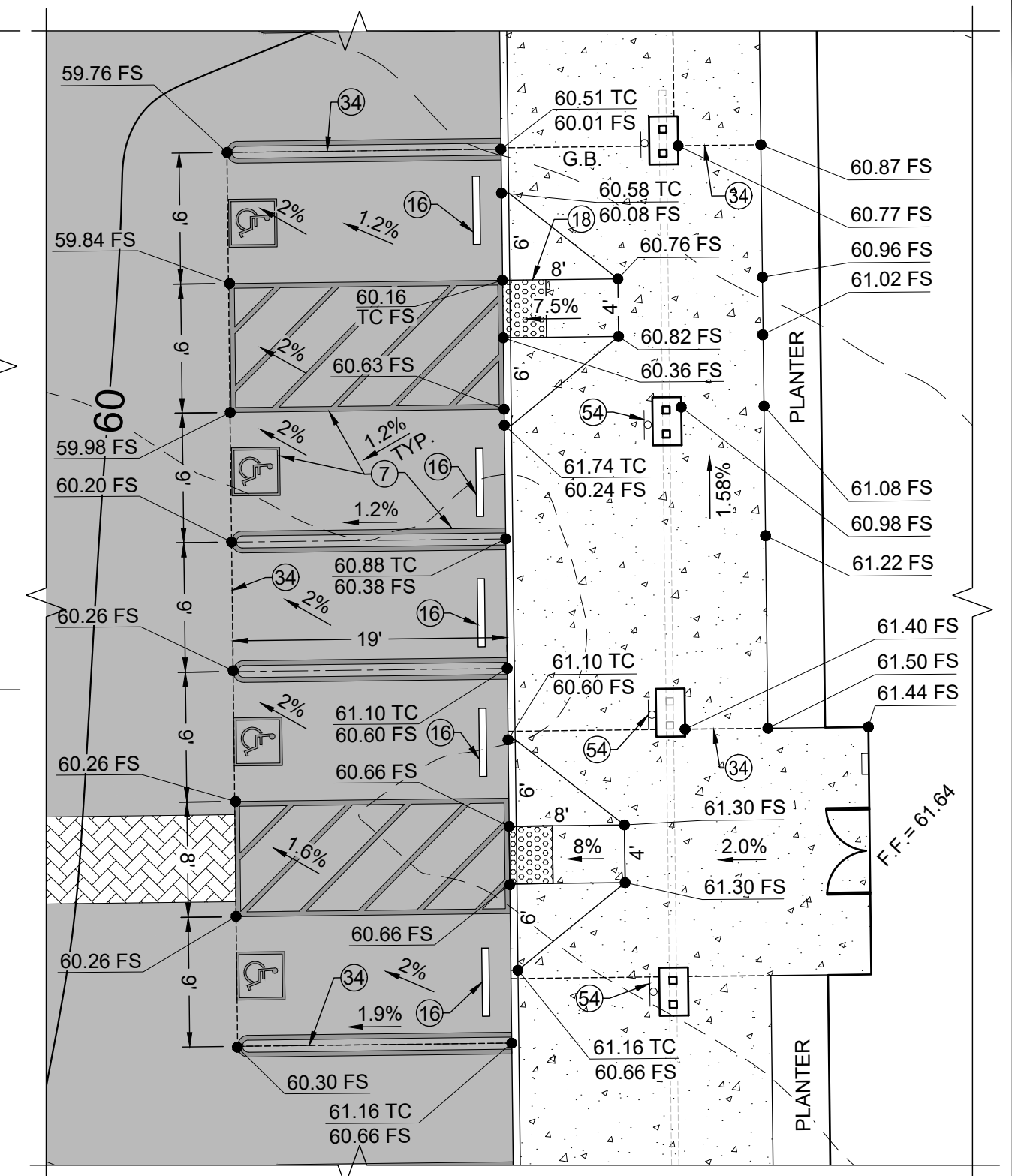
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13 OF 25
SHEET
GS-4



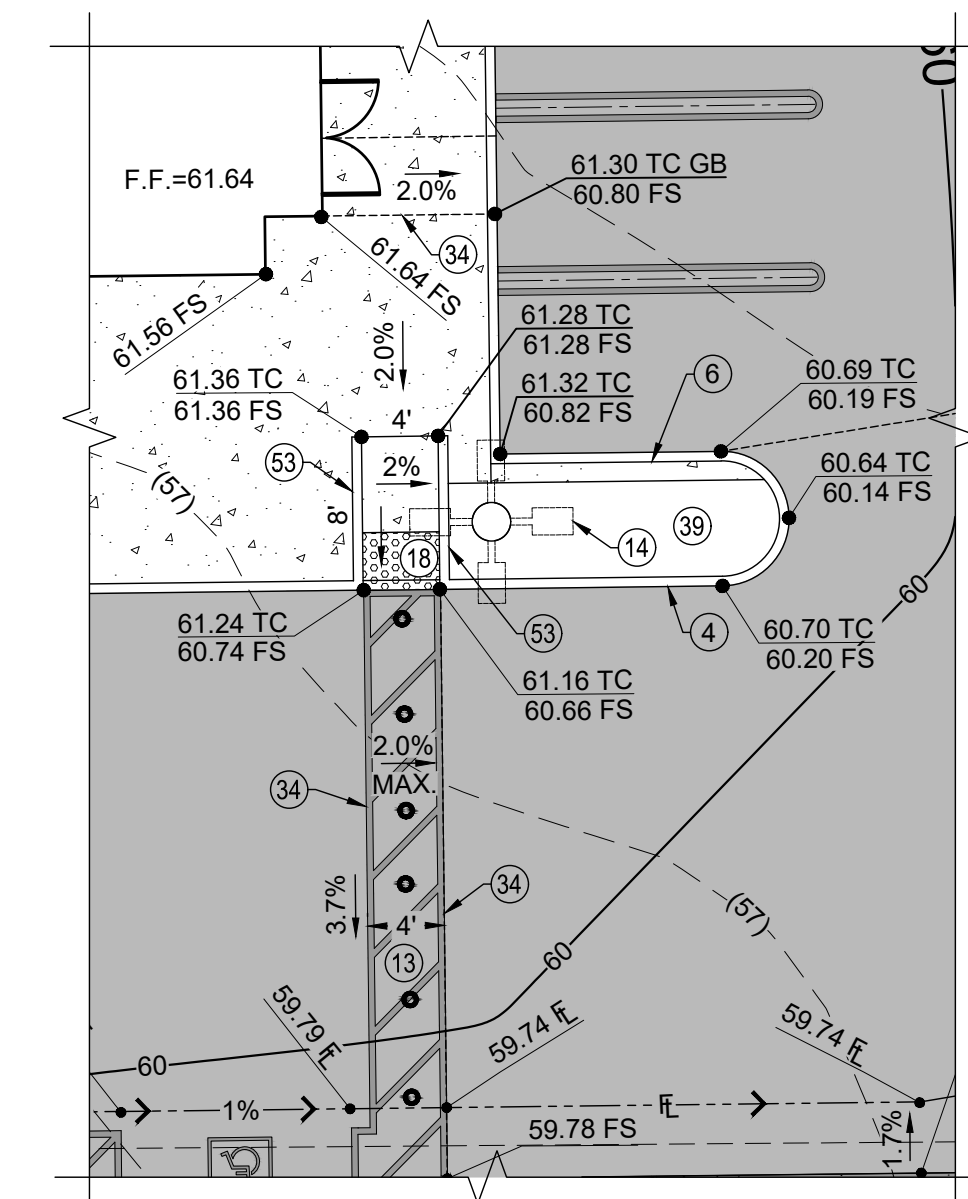
ENLARGED PLAN 'D' SCALE: 1"=10'



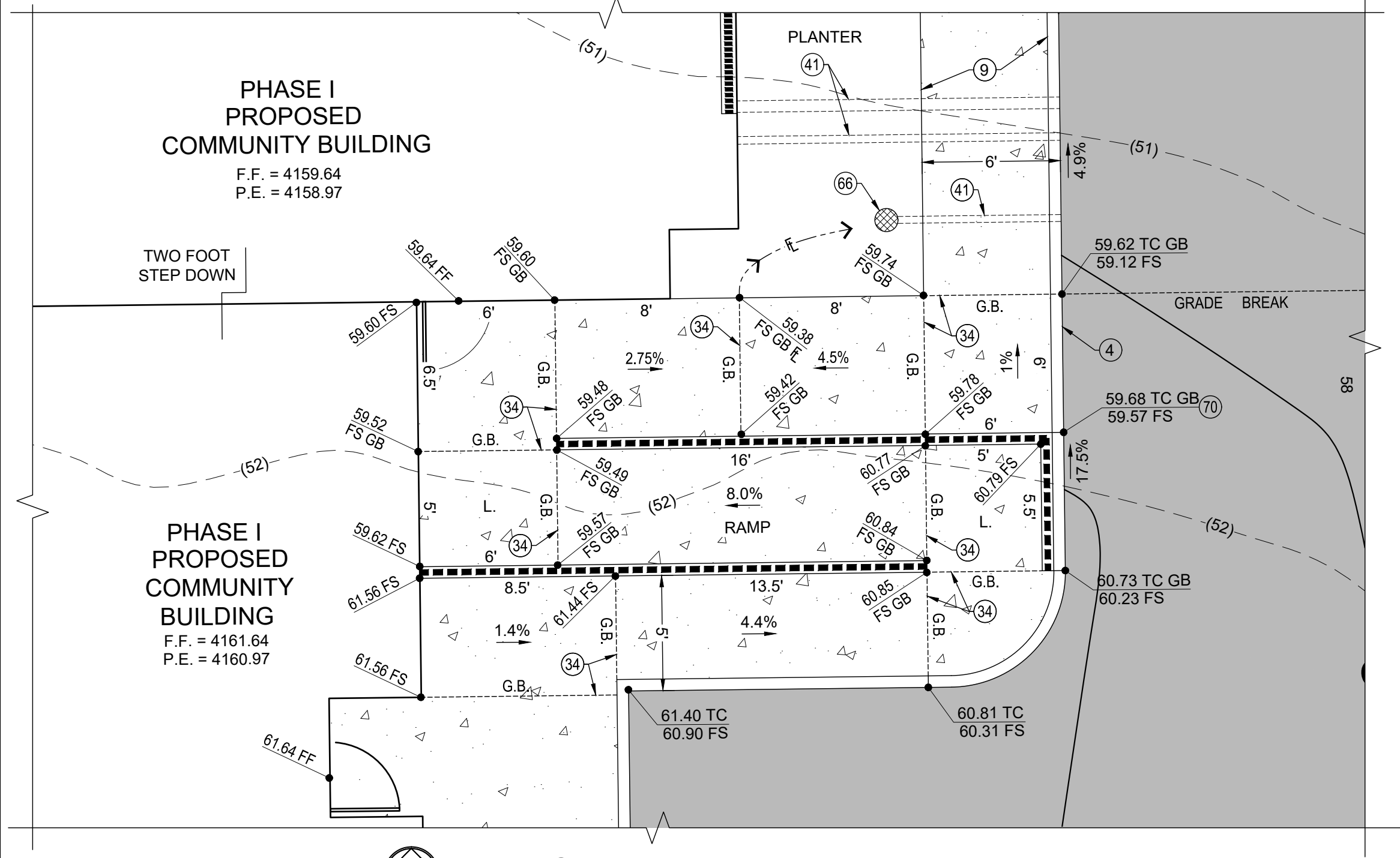
ENLARGED PLAN 'B' SCALE: 1"=10'



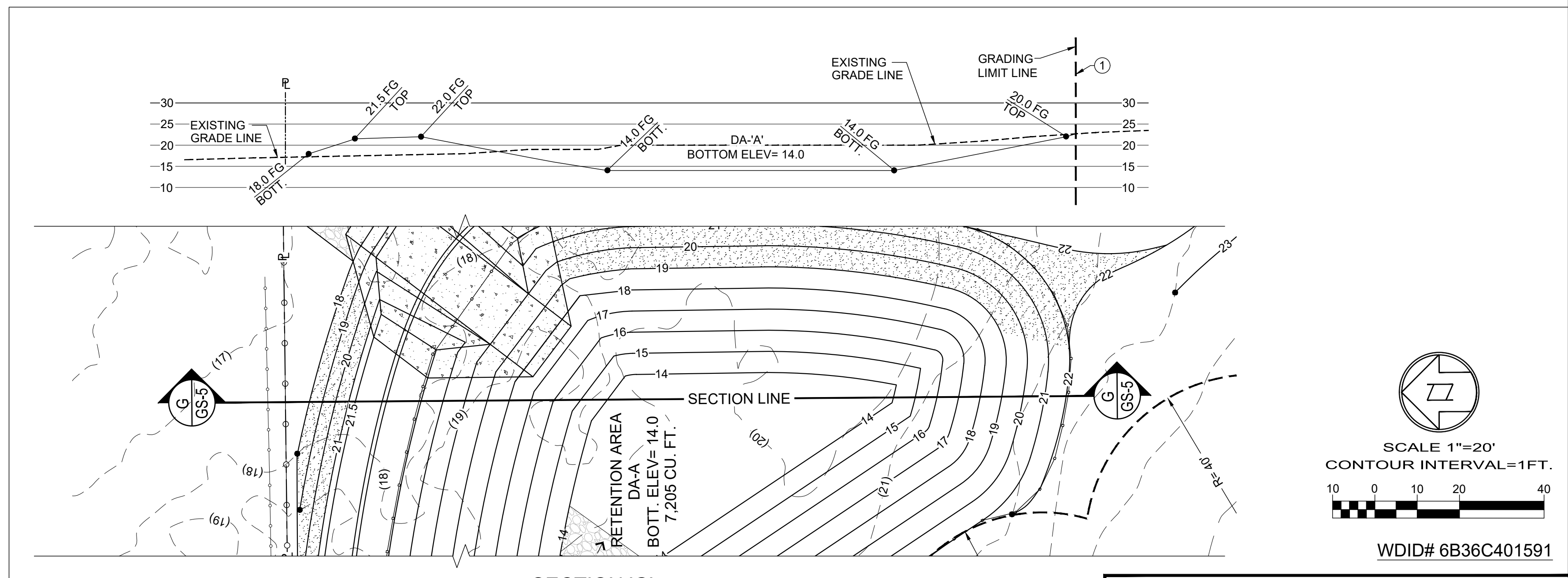
ENLARGED PLAN 'A' SCALE: 1"=10'



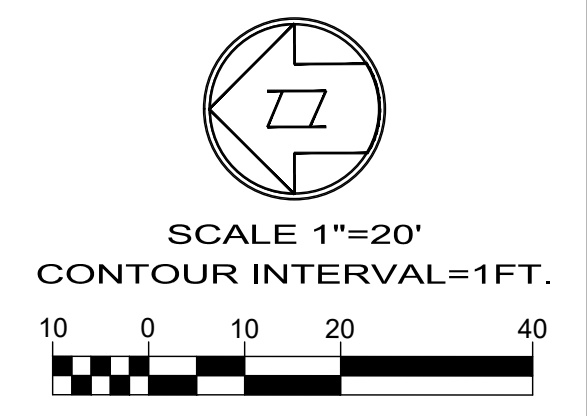
ENLARGED PLAN 'C' SCALE: 1"=10'



ENLARGED PLAN 'E' SCALE: 1"=5'



SECTION 'G'



WDID# 6B36C401591

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 ELEV. = 3613.45'

NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

PLANS PREPARED BY:
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 10770 I AVENUE, SUITE 108
 Hesperia, CA 92345
 Phone: (760) 948-4900

COUNTY OF SAN BERNARDINO
 DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: TER
 DRAWN BY: TER
 CHECKED BY:
 APPROVED BY:

RECOMMENDED/APPROVED BY:
 LAND DEVELOPMENT ENGINEER DATE

ASST. DIRECTOR OF PUBLIC WORKS
 DIRECTOR OF PUBLIC WORKS DATE

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 • PRAA-2021-00040
 • DRNSTY-2021-00054

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 • NEWNR-2021-00230
 • WQMP-2021-00153

DRAWN BY: TRLS
 DATE: 09-03-2024

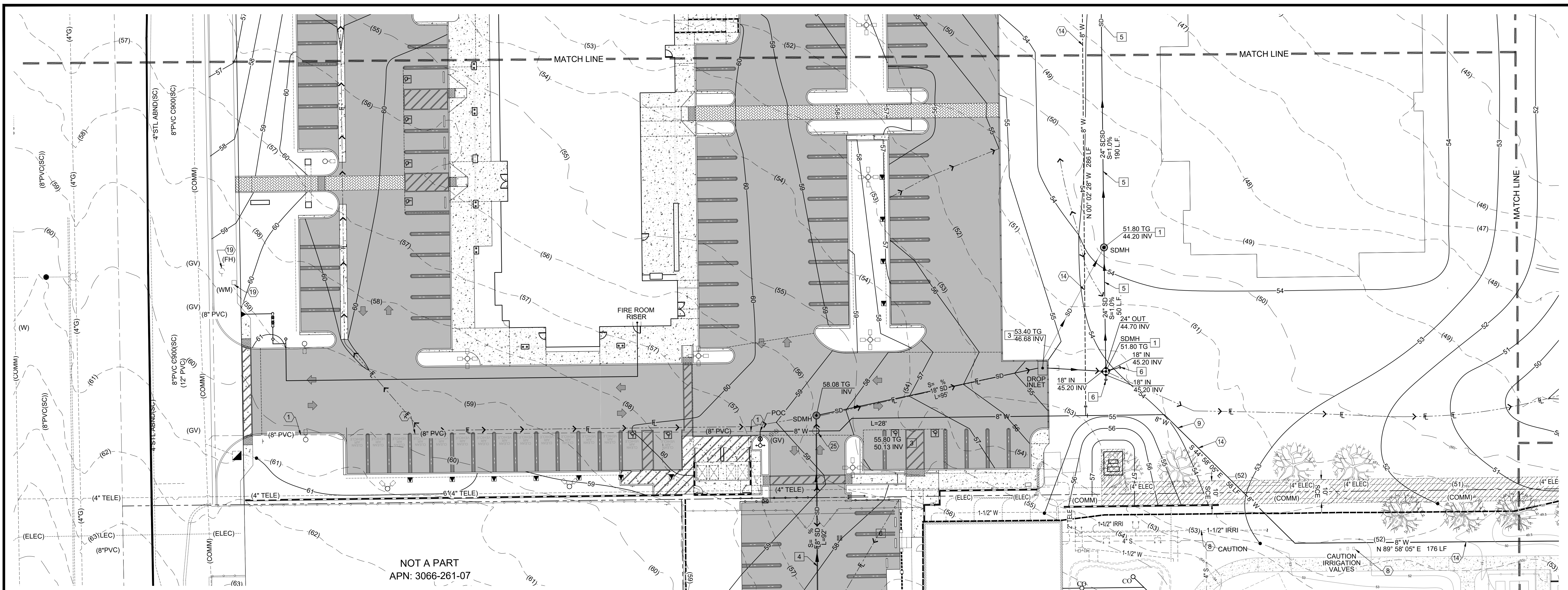
DESIGNED BY: TER
 DATE:

APPROVED BY: ENLARGED GRADING PLANS/
 SECTIONS

PHELAN PINON HILLS
 COMMUNITY SERVICES DISTRICT
 CIVIC CENTER DEVELOPMENT
 PHASE 1
 9535 SHEEPCREEK RD, PHELAN, CA. 92329
 (APN: 3066-261-10 & 3066-251-18)

SCALE: AS SHOWN
 SHEET 14 OF 25
 SHEET GS-5





NOT A PART
APN: 3066-261-07

PPHCSD GENERAL NOTES:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND TO THE LATEST PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT (PPHCSD OR DISTRICT) STANDARDS AND TECHNICAL SPECIFICATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A CURRENT AND APPROVED SET OF DISTRICT'S TECHNICAL SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. STANDARD SPECIFICATIONS CAN BE OBTAINED ONLINE AT WWW.PPHCS.DISTRICT.CA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ARRANGEMENTS FOR CONSTRUCTION INSPECTION AT LEAST 48 HOURS PRIOR TO BEGINNING OF WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE JOB SITE AND THE LOCATION OF ALL UNDERGROUND FACILITIES SHOWN OR NOT SHOWN ON THESE PLANS AND TO COMPARE ACTUAL CONDITIONS WITH THE DRAWINGS TO ASCERTAIN THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF THE WORK. COMMENCEMENT OF THE WORK SHALL CONSTITUTE FULL ACCEPTANCE OF THE EXISTING SITE CONDITIONS, AND THE CONTRACTOR WILL BE UNILATERALLY RESPONSIBLE FOR ANY DAMAGE DONE TO EXISTING UTILITIES OR OTHER STRUCTURES THAT ARE SHOWN OR NOT SHOWN ON THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY, AND ALL DAMAGES TO PIPE INCURRED DURING SHOCK FILLING AND COMPACTION OPERATIONS.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS.
- THRUST BLOCKS SHALL BE INSTALLED PER PPHCS.DISTRICT DRAWING NO. W-7.
- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT ALL UTILITY AGENCIES TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES WHETHER SHOWN, OR NOT SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING FACILITIES FROM DAMAGE DURING CONSTRUCTION.
- CALL UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR ANY TRENCHING, ETC. AT 811 OR WWW.CONTACT811.ORG. THE FOLLOWING AGENCIES SHALL BE CONTACTED PRIOR TO ANY CONSTRUCTION OR EXCAVATION BEGINS:

- WATER PIPELINE SHALL BE PVC C900, CLASS 200 AND INSTALLED WITH LOCATION TAPE 18" BELOW FINISHED GRADE AND 14 GA. INSULATED WIRE TAPED TO PIPE AND BROUGHT TO SURFACE AT VALVE BOX AND HYDRANTS. ALL SPLICES TO BE MADE WITH 3M CONNECTORS.
- ALL NEW FIRE HYDRANTS INSTALLED ARE TO BE COVERED AT TIME OF INSTALLATION, UNTIL THE WATER LINE IS ACTIVE.
- ANY RELOCATION OF EXISTING TYPE "A" (TWO 2-1/2" OUTLETS) AND/OR 4-1/2" BARREL SIZE HYDRANTS MUST BE REPLACED 12. TYPE "B" (TWO 2-1/2", ONE 4" OUTLETS) 5-1/4" HYDRANT.
- ANY HYDRANTS TO BE RELOCATED REQUIRE A NEW CONNECTION FROM HYDRANT VALVE AT THE WATER MAIN TO RELOCATED HYDRANT PER PPHCS.DISTRICT STANDARD DRAWING NO. W-3. EXISTING AC HYDRANT LATERAL SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- ALL FIRE HYDRANTS REMOVED SHALL BE SALVAGED AND RETURNED TO THE DISTRICT'S YARD AT 12336 OASIS ROAD, PINON HILLS.
- THE CONTRACTOR SHALL COORDINATE ALL TIE-INS OF NEW WATER MAINS WITH WATER OPERATIONS MANAGER 760-868-1212. EXT. 314, TO KEEP INTERRUPTIONS TO A MINIMUM. NO INTERRUPTIONS TO EXISTING SERVICES SHALL BE MADE UNLESS THE DISTRICT GRANTS PRIOR APPROVAL.
- THE CONTRACTOR SHALL INSURE THAT UTILITY EASEMENTS, IF REQUIRED, HAVE BEEN RECORDED PRIOR TO START OF WORK.
- WATER MAIN SHALL HAVE A MINIMUM OF 48" OF COVER FROM TOP OF PIPE TO FINISH GRADE. TRANSMISSION PIPELINE SHALL HAVE A MINIMUM OF 60" COVER FROM TOP OF PIPE TO FINISH GRADE.
- ALL STATIONING IS BASED ON THE CENTERLINE OF THE STREET, UNLESS OTHERWISE NOTED.
- ALL SERVICE CHANGES TO BE THE RESPONSIBILITY OF THE CONTRACTOR. EXISTING SERVICE LINES TO BE REMOVED AT THE TIME OF NEW CONNECTION FROM METER TO MAIN.
- HYDRO TEST AT 200 PSI MINIMUM FOR A (2) HOUR DURATION AT THE LOWEST POINT IN THE NEW WATER LINE. SCHEDULE WITH DISTRICT 48-HOURS PRIOR TO TESTING.
- SERVICE LINES ARE TO BE INSTALLED PER STANDARD DRAWING NO. S W-2A, W-2B, W-2C, AND W-2D.
- WATER METERS TO BE RELOCATED REQUIRE NEW SERVICE LINE FROM CORPORATION STOP TO RELOCATED WATER METER. NO COUPLINGS ARE ALLOWED. REFER TO PPHCS.DISTRICT STANDARD DRAWING NO. S W-2A, W-2B, W-2C, AND W-2D.
- ALL VALVES INSTALLED BY THE CONTRACTOR SHALL BE ACCESSIBLE FOR OPERATION WITH COMPLETE VALVE CAP ASSEMBLY TO GRADE DIRECTLY FOLLOWING CONNECTION TO EXISTING WATER SYSTEM. SEE STANDARD DRAWING NO. S W-5 AND W-6.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE

WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE UNDERSIGNED ENGINEER AND PHELAN PINON HILLS CSD.

25. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUALLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE DISTRICT 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 DISTRICT OR THE ENGINEER.

26. ALL EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH WORKING DAY AND ROADS OPEN TO VEHICULAR TRAFFIC UNLESS OTHERWISE APPROVED BY PHELAN PINON HILLS CSD.

27. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT OR "LETTER OF NON-OBJECT" FROM THE COUNTY OF TRANSPORTATION DEPARTMENT, PERMIT SECTION, PRIOR TO ANY GRADING OR PIPELINE EXCAVATION WITHIN COUNTY RIGHT-OF-WAY.

28. ALL PIPE DISTANCE SHOWN ARE HORIZONTAL.

29. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE TO THE VERTICAL AND HORIZONTAL MEASUREMENTS OF THESE PLANS AND EXISTING DESIGN STANDARDS. ADEQUATE STAKES SHALL BE SET UNDER THE DIRECTION OF A LICENSED SURVEYOR / ENGINEER FOR THE CONTRACTOR. ALL CONSTRUCTION SURVEYING SHALL BE PERFORMED IN ACCORDANCE WITH THE SURVEYING PROCEDURE OF THE SURVEYOR/ ENGINEER OF RECORD. IF THIRD PARTY SUBCONTRACTORS PERFORM THE CONSTRUCTION LAYOUT AND SURVEYING FOR THIS PROJECT WITHOUT THE COORDINATION OF THE SURVEYOR/ ENGINEER OF RECORD, THEY SHALL HAVE ASSUMED THE POSITION OF SURVEYOR / ENGINEER OF RECORD. THE FINAL CHECK OF THIS DESIGN IS TO BE THE CONSTRUCTION STAKING AS THE DESIGN MEETS THE EXISTING CONTROL AND ELEVATIONS. ALL EXISTING STREET CROSS SECTIONS SHALL

BE VERIFIED FOR MINIMUM CROSS FALL AT TIME OF STAKING. ANY DISCREPANCIES TO THE STANDARD DESIGN CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF THE SURVEYOR / ENGINEER OF RECORD PRIOR TO PROCEEDING WITH CONSTRUCTION. IF CONSTRUCTION CONTINUES WITHOUT VERIFICATION THE CONTRACTOR ASSUMES RESPONSIBILITY OF THE CORRECTNESS OF THE INTENDED DESIGN.

30. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL SURVEY MONUMENTS. ANY SURVEY MONUMENTS DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPLACED BY A LICENSED SURVEYOR AND AT THE CONTRACTOR'S EXPENSE.

31. THE METHOD AND LOCATION OF CONNECTION TO THE PUBLIC WATER SUPPLY AND REQUIREMENTS FOR BACKFLOW PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH DISTRICT REQUIREMENTS.

32. ALL TRAFFIC CONTROL SHALL BE PER M.U.T.C.D. "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"

33. THE CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES, TRADES, AND ARCHITECTURAL PLANS TO AVOID CONFLICTS AND VERIFY BUILDING TIE-IN LOCATION.

34. THE ENGINEER OF RECORD SIGNING THESE PLANS IS RESPONSIBLE FOR THE ACCURACY AND ACCEPTABILITY OF THE WORK. THE ENGINEER OF RECORD IS REQUIRED TO STAMP AND SIGN THE "DECLARATION OF ENGINEER OF RECORD" HERON.

35. THE CONTRACTOR IS NOTIFIED THAT NATIVE SOIL WITHIN THE TRENCHING AND BORING AREA MAY CONTAIN SIGNIFICANT AMOUNT OF ROCK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL, BREAKING, AND DISPOSAL OF ANY ROCKS ENCOUNTERED THAT INTERFERE WITH THE PROPOSED WORK.

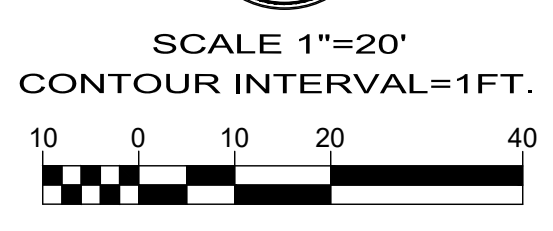
36. TRENCH COMPACTION TESTING TO BE PER SECTION 1.11.08 OF THE TECHNICAL SPECIFICATIONS. ALL RELATED COSTS ARE THE RESPONSIBILITY OF THE PROJECT OWNER.

UTILITY NOTES- STORM DRAIN

- INSTALL 5" DIA CONCRETE MANHOLE WITH 36" TRAFFIC RATED GRATE WITH FLOGARD 36" INSERT FILTER OR APPROVED EQUAL. SEE SHEET UD-1.
- INSTALL OLDCASTLE MODEL 660 INLET 3'-6" X 5' X 6" WITH FLOGARD INSERT FILTER MODEL FF-24DGO OR APPROVED EQUAL. SEE SHEET UD-2.
- INSTALL ADS 18" N-12 ST IB PIPE PER ASTM F2648 TO THE LIMITS SHOWN.
- INSTALL ADS 24" ADS N-12 ST IB PIPE PER ASTM F2648 TO THE LIMITS SHOWN.
- BEGIN OF 18" STORM DRAIN. INSTALL 18" END CAP.
- INSTALL 18" TEE.
- SAWCUT 5" WIDE X 12" LONG TRENCH TO DEPTHS SHOWN THEN REPLACE ASPHALT OF 4" AC OVER 5" AG.
- INSTALL 45" BEND.

UTILITY NOTES- WATER

- EXISTING 8" WATER MAIN TO BE PROTECTED IN PLACE.
- EXISTING FIRE HYDRANT TO BE REMOVED AND RELOCATED INTO THE ADJACENT PLANTER. REFER TO PPHCS.DISTRICT STD W-3 ON SHEET UD-2. EXISTING TEE AND VALVES TO BE REMOVED AND REVISED. EXISTING END CAP AND THRUST BLOCK TO BE REMOVED.
- INSTALL 6" PVC C900 CLASS 200 WATER PIPELINE TO LIMITS SHOWN.
- CONTRACTOR TO POTHOLE EXISTING IRRIGATION LINES PRIOR TO CONSTRUCTION.
- INSTALL 45" BEND.
- INSTALL SINGLE FIRE DEPARTMENT CONNECTION (FDC) PER SAN BERNARDINO COUNTY FIRE DEPARTMENT STD. F-4 SHEET U-2.
- INSTALL POST INDICATOR VALVE PER SBCCO FIRE DEPT. F-4 SHEET U-2.
- INSTALL FIRE HYDRANT PER PPHCS.DISTRICT STD. W-3
- INSTALL 6" FIRE SERVICE REDUCED PRESSURE DETECTOR ASSEMBLY PER PPHCS.DISTRICT STD. W-15.
- INSTALL 8" PVC C900, CLASS 200 WATER PIPELINE PER PPHCS.DISTRICT STD. WITH RESTRAINED JOINTS AND FITTINGS.
- INSTALL 8" TEE WITH 3- VALVES PER PPHCS.DISTRICT STD.
- INSTALL 8" X 8" X 6" TEE WITH VALVE ON NORTH OUTLET PER PPHCS.DISTRICT STD.
- INSTALL 6" DIA. C151/A21.51 PRESSURE CLASS 200 WATER PIPELINE WITH RESTRAINED JOINTS PER PPHCS.DISTRICT STD. TO LIMITS SHOWN.
- INSTALL 90" FLANGED X MJ BEND.
- FIRE HYDRANT AND WATER METER TO BE RELOCATED PER STREET IMPROVEMENT PLANS BY OTHERS.
- PROPOSED UTILITY CROSSING. (WATER MAIN TO MAINTAIN A CLEARANCE OF 12" MIN. ABOVE STORM DRAIN).



811
Know what's below.
Call before you dig.

BENCHMARK:
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD. FROM THE INTERSECTION OF PHELAN RD. 49 FT NORTH-EAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD. 34 FT EAST OF THE CENTER LINE OF JOHNSON RD. 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD. 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
ELEV= 3613.45'

NO.	REVISION	DATE	BY

Jerry L. Miles
No. C 42593
Civil
JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

PLANS PREPARED BY:
TRLS ENGINEERING Inc.
10770 I AVENUE, SUITE 108
Hesperia, CA 92345
Phone: (760) 948-4900

**COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS**

DESIGNED BY: TER
DRAWN BY: TER
CHECKED BY:
APPROVED BY:
RECOMMENDED/APPROVED BY:
LAND DEVELOPMENT ENGINEER

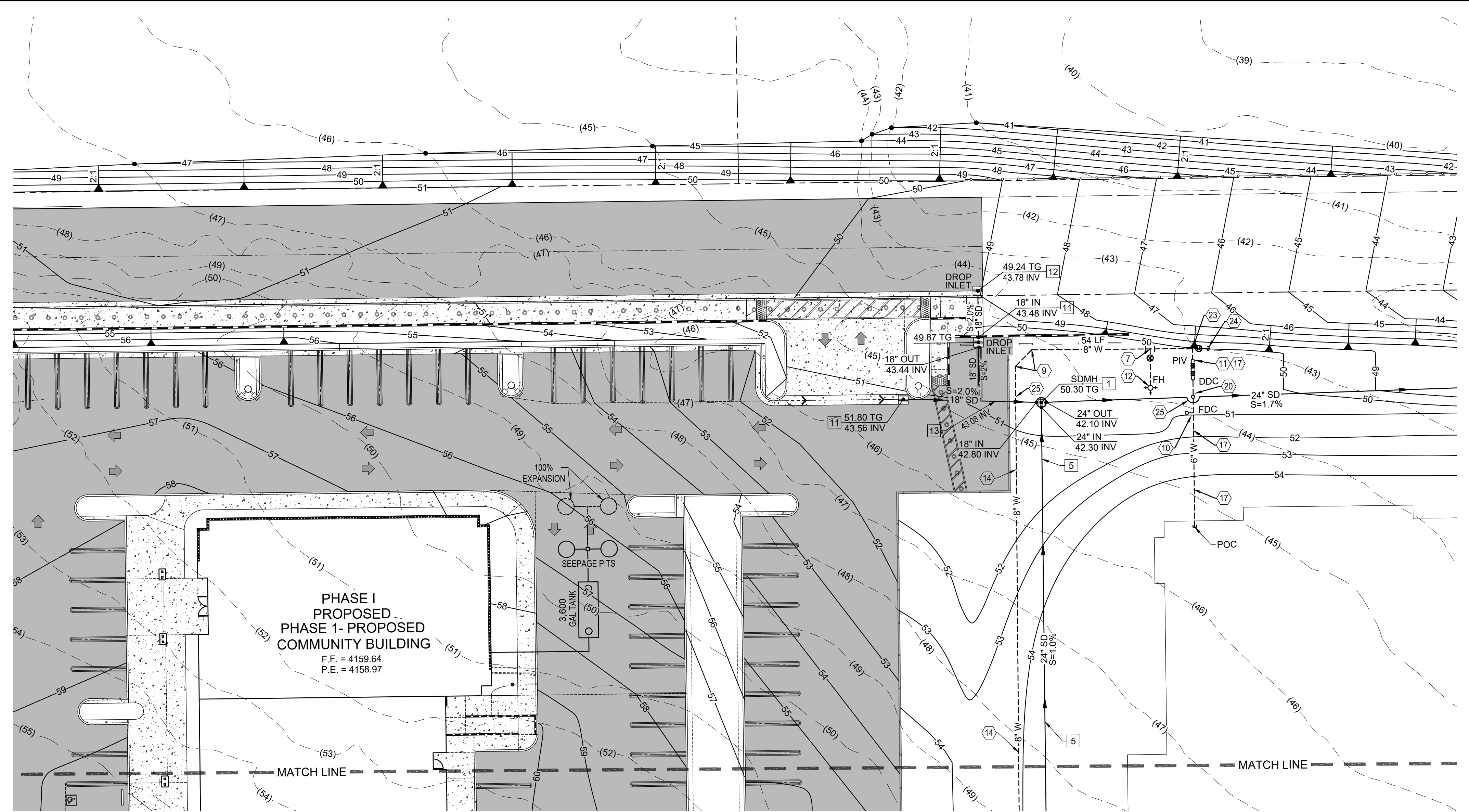
ASST. DIRECTOR OF PUBLIC WORKS
DIRECTOR OF PUBLIC WORKS

PHELAN PINON HILLS
COMMUNITY SERVICES DISTRICT
CIVIC CENTER DEVELOPMENT
PHASE 1
9535 SHEEPCREEK RD. PHELAN, CA. 92329
(APN: 3066-261-10 & 3066-251-18)

SCALE:
AS SHOWN
SHEET
15 OF 25
SHEET
U-1

WDID# 6B36C401591

- GRAD-2021-00235
- PRAA-2021-00040
- DRNSTY-2021-00054
- SIP-2021-00031
- NEWNR-2021-00230
- WQMP-2021-00153



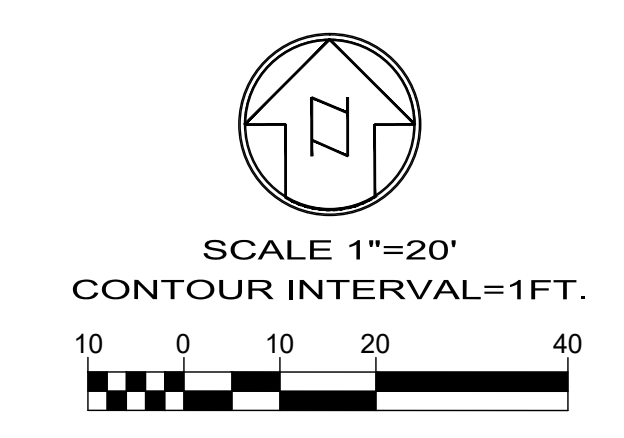
PHASE I
PROPOSED
PHASE 1- PROPOSED
COMMUNITY BUILDING
F.F. = 4159.64
P.E. = 4158.97

UTILITY NOTES- STORM DRAIN

- 1 INSTALL 5' DIA CONCRETE MANHOLE WITH 36" TRAFFIC RATED GRATE WITH FLOGARD 36" INSERT FILTER OR APPROVED EQUAL. SEE SHEET UD-1.
- 5 INSTALL 24" ADS N-12 ST IB PIPE PER ASTM F2648 TO THE LIMITS SHOWN.
- 11 INSTALL OLDCASTLE 2'-3" WIDE X 3'-3" LONG MODEL A147 CATCH BASIN INLET AND GRATE WITH FLOGARD DEBRIS BASKET AND FILTER OR APPROVED EQUAL. SEE SHEET UD-1.
- 12 INSTALL 2' X 3' CATCH BASIN BASES AND RISER PER OLDCASTLE UT-OGD WITH FLOGARD DEBRIS BASKET AND FILTER OR APPROVED EQUAL. SEE SHEET UD-1.
- 13 INSTALL 18" STORM DRAIN TEE.

UTILITY NOTES- WATER

- 7 INSTALL 6" PVC C900 CLASS 200 WATER PIPELINE TO LIMITS SHOWN.
- 9 INSTALL 45° BEND.
- 10 INSTALL SINGLE FIRE DEPARTMENT CONNECTION (FDC) PER SAN BERNARDINO COUNTY FIRE DEPARTMENT STD. F-4 SHEET U-2.
- 11 INSTALL POST INDICATOR VALVE PER SBCO FIRE DEPT. F-4 SHEET U-2.
- 12 INSTALL FIRE HYDRANT PER PPHCSD STDS. W-3
- 14 INSTALL 8" PVC C900, CLASS 200 WATER PIPELINE PER PPHCSD STDS. WITH RESTRAINED JOINTS AND FITTINGS.
- 17 INSTALL 6" DIA. C151/A21.51 PRESSURE CLASS 200 WATER PIPELINE WITH RESTRAINED JOINTS PER PPHCSD STDS. TO LIMITS SHOWN.
- 20 INSTALL BLOWOFF FIRE HYDRANT PER PPHCSD STD. W-4.
- 22 POINT OF CONNECTION. REMOVE EXISTING END CAP AND THRUST BLOCK AND CONNECT TO EXISTING 8" WATER PIPELINE.
- 23 INSTALL 8" X8" X 6" TEE.
- 24 INSTALL 8" VALVE WITH 5 LF OF 8" WATER LINE WITH END CAP. END OF WATER PIPELINE CONSTRUCTION PHASE 1.
- 25 PROPOSED UTILITY CROSSING. (WATER MAIN TO MAINTAIN A CLEARANCE OF 12" MIN. ABOVE STORM DRAIN).



WDID# 6B36C401591

<ul style="list-style-type: none"> • GRAD-2021-00235 • PRAA-2021-00040 • DRNSTY-2021-00054 	<ul style="list-style-type: none"> • SIP-2021-00031 • NEWNR-2021-00230 • WQMP-2021-00153
DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)
DESIGNED BY: TER DATE:	SHEET: AS SHOWN SHEET: 16 OF 25 SHEET: U-2
APPROVED BY: ASST. DIRECTOR OF PUBLIC WORKS DATE:	UTILITY PLAN

**COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS**

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	DATE

PLANS PREPARED BY:
TRLs ENGINEERING Inc.
10770 I AVENUE, SUITE 108
Hesperia, CA 92345
Phone: (760) 948-4900

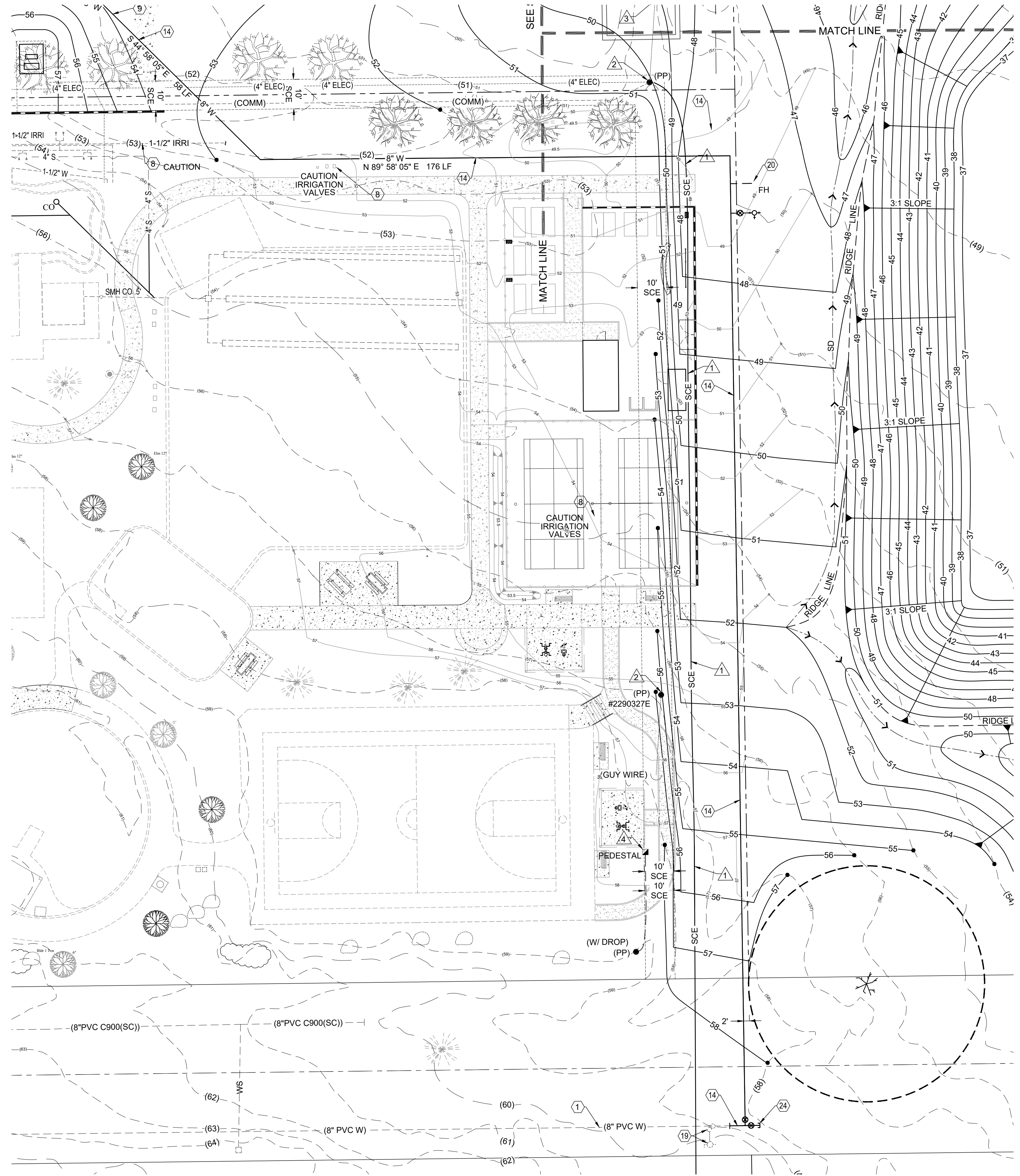


JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

NO.	REVISION	DATE	BY

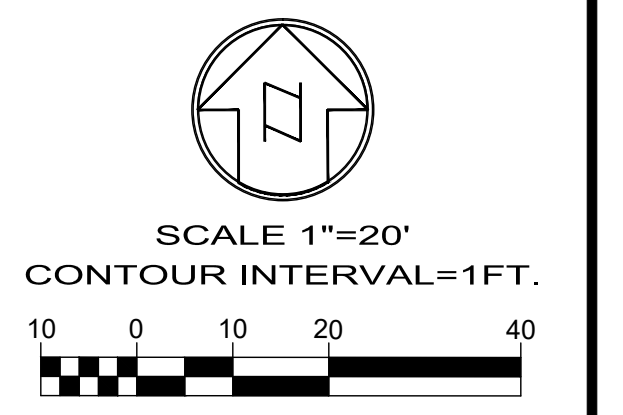
BENCHMARK:
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
ELEV= 3613.45'





- UTILITY NOTES- WATER**
- 1 EXISTING 8" WATER MAIN TO BE PROTECTED IN PLACE.
 - 8 CONTRACTOR TO POTHOLE EXISTING IRRIGATION LINES PRIOR TO CONSTRUCTION.
 - 9 INSTALL 45° BEND.
 - 14 INSTALL 8" PVC C900, CLASS 200 WATER PIPELINE PER PPHCSD STDS. WITH RESTRAINED JOINTS AND FITTINGS.
 - 15 INSTALL 8" TEE WITH 3- VALVES PER PPHCSD STDS.
 - 19 FIRE HYDRANT AND WATER METER TO BE RELOCATED PER STREET IMPROVEMENT PLANS BY OTHERS.
 - 20 INSTALL BLOWOFF FIRE HYDRANT PER PPHCSD STD. W-4.
 - 24 INSTALL 8" VALVE WITH 5 LF OF 8" WATER LINE WITH END CAP. END OF WATER PIPELINE CONSTRUCTION PHASE 1.

- UTILITY NOTES- ELECTRICAL**
- ▲ PROPOSED UNDERGROUND SCE BY OTHERS.
 - ▲ EXISTING POWER POLE TO BE REMOVED BY OTHERS.
 - ▲ EXISTING GUY WIRE ANCHOR TO BE REMOVED BY OTHERS.
 - ▲ EXISTING PEDESTAL TO BE REMOVED BY OTHERS.



WDID# 6B36C401591

<ul style="list-style-type: none"> • GRAD-2021-00235 • PRAA-2021-00040 • DRNSTY-2021-00054 	<ul style="list-style-type: none"> • SIP-2021-00031 • NEWNR-2021-00230 • WQMP-2021-00153
DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)
DESIGNED BY: TER DATE:	ASST. DIRECTOR OF PUBLIC WORKS
APPROVED BY:	DIRECTOR OF PUBLIC WORKS
DATE:	DATE:
SCALE: AS SHOWN	SHEET 17 OF 25
SHEET U-3	

**COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS**

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	DATE

PLANS PREPARED BY:
TRLs ENGINEERING Inc.
 10770 1 AVENUE, SUITE 108
 Hesperia, CA 92345
 Phone: (760) 948-4900

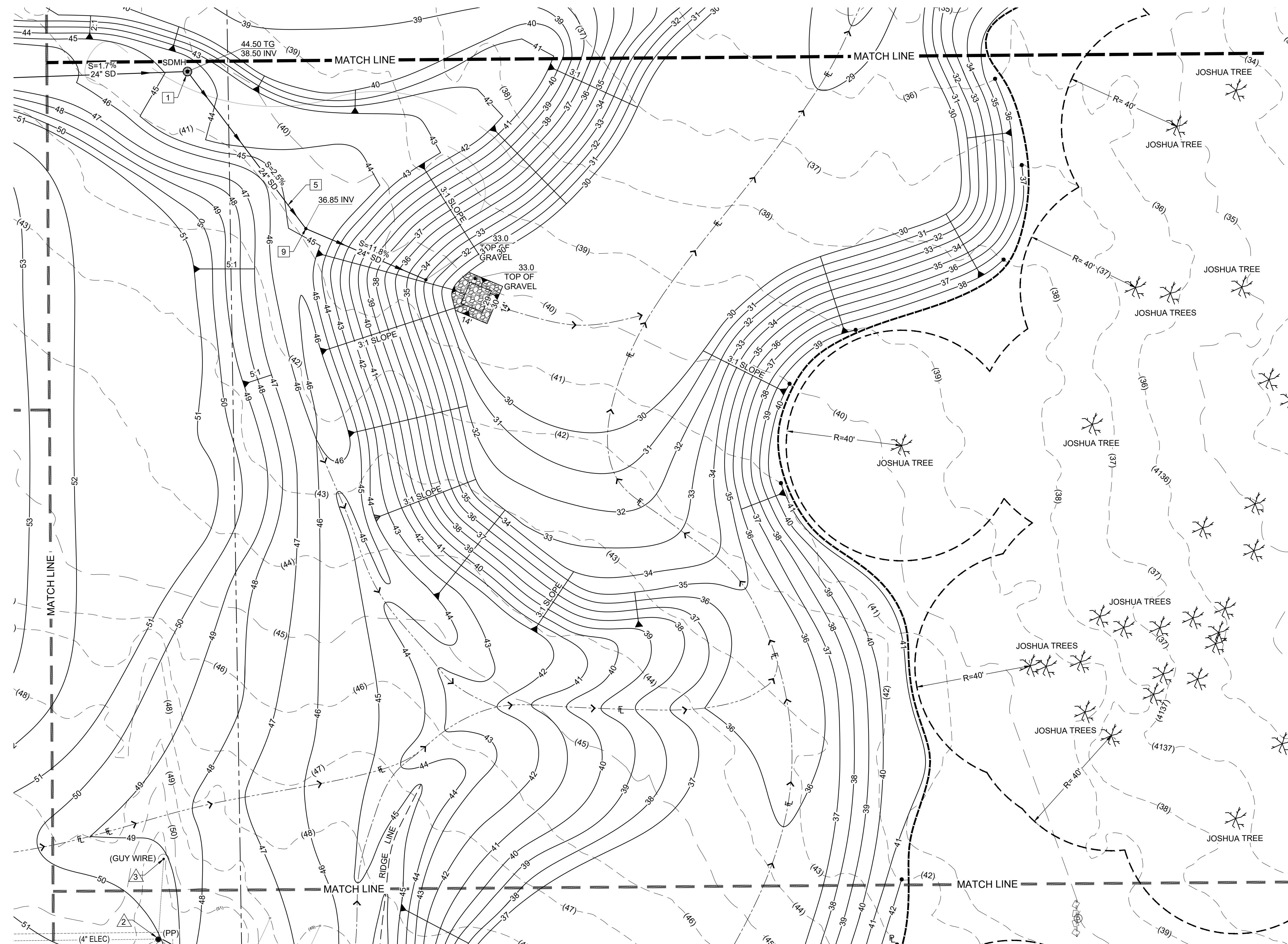


JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

NO.	REVISION	DATE	BY

BENCHMARK:
 U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD, FROM THE INTERSECTION OF PHELAN RD, 49 FT NORTHEAST OF THE CENTER OF THE INTERSECTION OF DUNCAN RD, 34 FT EAST OF THE CENTER LINE OF JOHNSON RD, 32.5 FT NORTH OF THE CENTER LINE DUNCAN RD, 6.6 FT WEST OF A FENCE, 6.3 FT NORTH OF A SECTION MARKER PIPE, 0.6 FT EAST OF A WITNESS POST, ABOUT 1 FT HIGHER THAN THE ROAD AND SET IN THE TOP OF A CONCRETE POST PROJECTING 0.4 FT ABOVE THE GROUND.
 ELEV= 3613.45'





UTILITY NOTES- WATER

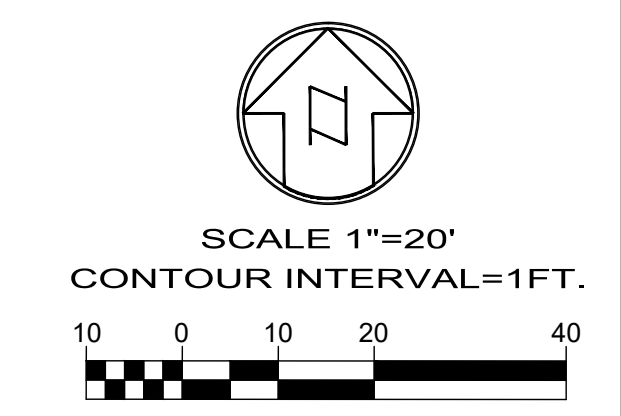
- 14) INSTALL 8" PVC C900, CLASS 200 WATER PIPELINE PER PPHCSD STDS. WITH RESTRAINED JOINTS AND FITTINGS.

UTILITY NOTES- STORM DRAIN

- 1) INSTALL 5' DIA CONCRETE MANHOLE WITH 36" TRAFFIC RATED GRATE WITH FLOGARD 36" INSERT FILTER OR APPROVED EQUAL. SEE SHEET UD-1.
- 5) INSTALL 24" ADS N-12 ST IB PIPE PER ASTM F2648 TO THE LIMITS SHOWN.
- 9) INSTALL 45" BEND.

UTILITY NOTES- ELECTRICAL

- ▲ PROPOSED UNDERGROUND SCE BY OTHERS.
- ▲ EXISTING POWER POLE TO BE REMOVED BY OTHERS.
- ▲ EXISTING GUY WIRE ANCHOR TO BE REMOVED BY OTHERS.



WDID# 6B36C401591

- GRAD-2021-00235
- SIP-2021-00031
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 ELEV= 3613.45'

NO.	REVISION	DATE	BY

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

PLANS PREPARED BY:
TRLS ENGINEERING Inc.
 10770 1 AVENUE, SUITE 108
 Hesperia, CA 92345
 Phone: (760) 948-4900

**COUNTY OF SAN BERNARDINO
 DEPARTMENT OF PUBLIC WORKS**

DESIGNED BY: TER	DRAWN BY: TER	CHECKED BY:	APPROVED BY:
RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	DATE

DRAWN BY: TRLS
 DATE: 09-03-2024

DESIGNED BY: TER
 DATE:

APPROVED BY: _____
 DATE:

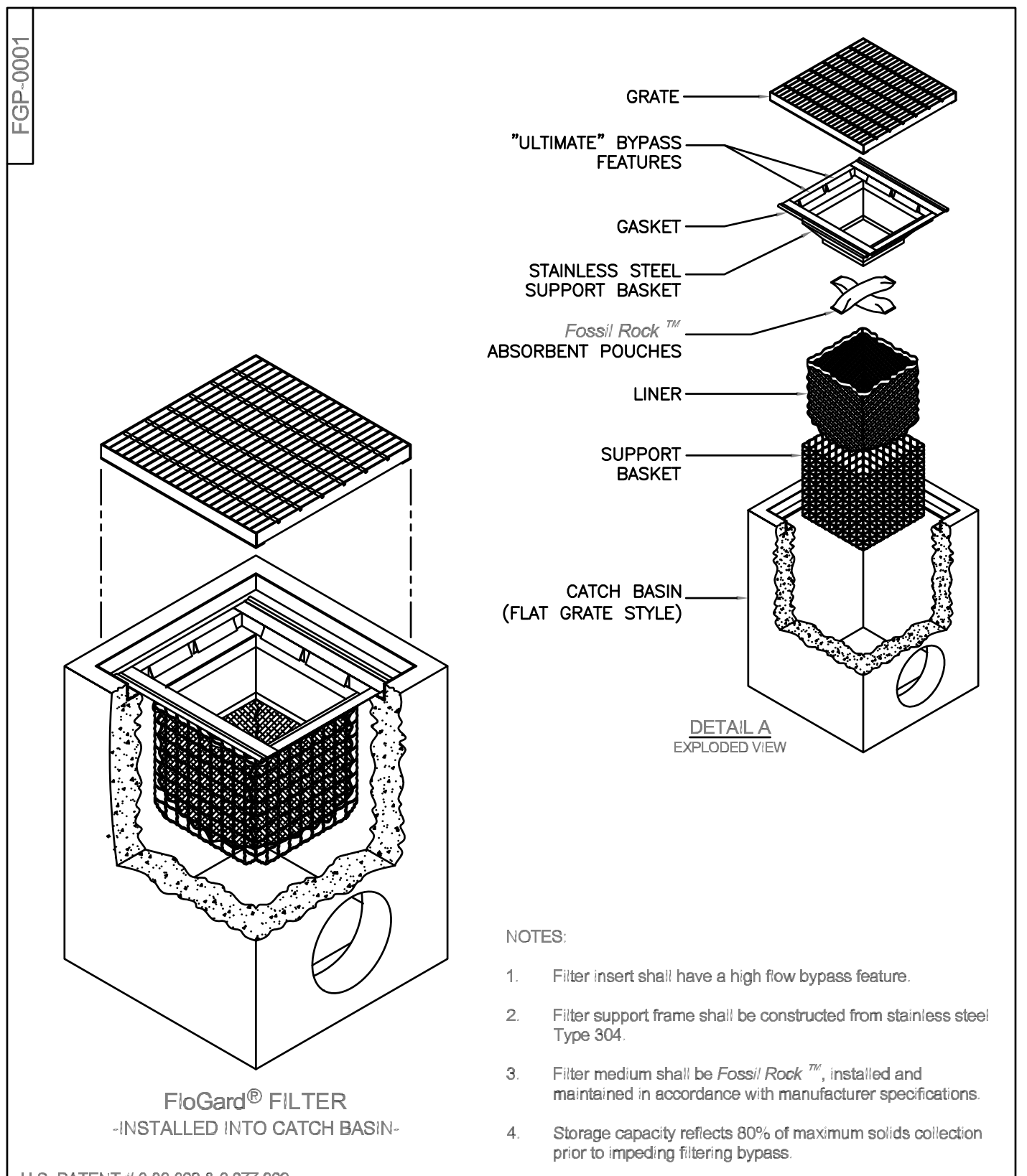
**PHELAN PINON HILLS
 COMMUNITY SERVICES DISTRICT
 CIVIC CENTER DEVELOPMENT
 PHASE 1
 9535 SHEEPCREEK RD, PHELAN, CA. 92329
 (APN: 3066-261-10 & 3066-251-18)**

SCALE:
AS SHOWN

SHEET
18 OF 25

SHEET
U-4





- NOTES:
- Filter insert shall have a high flow bypass feature.
 - Filter support frame shall be constructed from stainless steel Type 304.
 - Filter medium shall be Fossil Rock™, installed and maintained in accordance with manufacturer specifications.
 - Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.

FloGard® FILTER
-INSTALLED INTO CATCH BASIN-

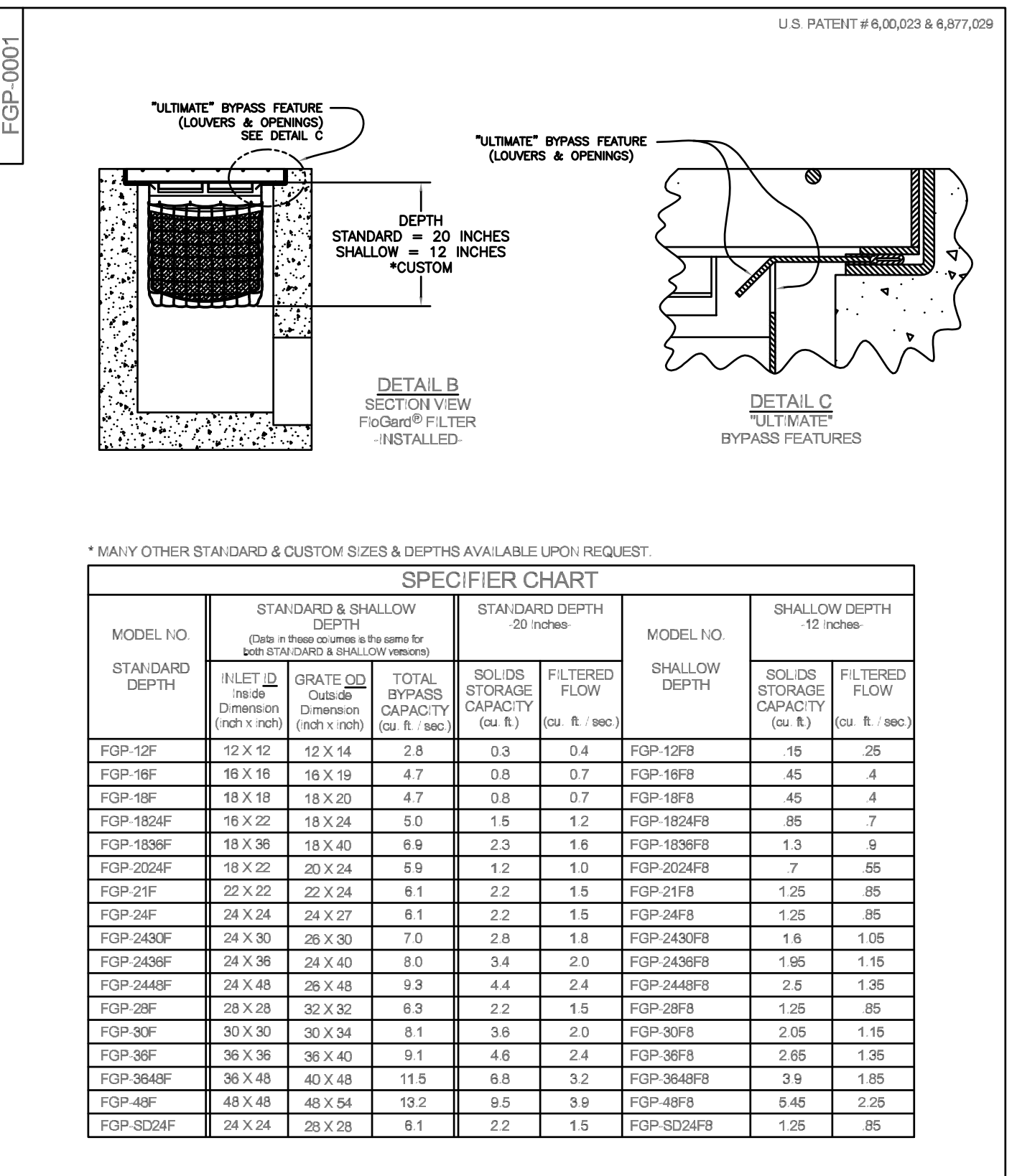
U.S. PATENT # 6,000,023 & 6,877,029

FloGard®
Catch Basin Insert Filter
Grated Inlet Style

Olecastle®
Stormwater Solutions

7021 Bourne Park, Suite 200 | Littleton, CO 80120 | PH: 800-678-8819 | olecastle.com
 100% SATISFACTION GUARANTEE: If you are not completely satisfied with your purchase, please return the product to us within 30 days of purchase. We will provide a full refund or replacement at our discretion. This guarantee is void if the product is damaged, altered, or misused. See our website for full terms and conditions.

DRAWING NO. FGP-0001 G REV. ECO-0142 DATE: APR 7/13/16 SHEET 1 OF 2



* MANY OTHER STANDARD & CUSTOM SIZES & DEPTHS AVAILABLE UPON REQUEST.

MODEL NO.	STANDARD & SHALLOW DEPTH			STANDARD DEPTH			SHALLOW DEPTH		
	INLET ID (inch)	GRATE OD (inch)	TOTAL BYPASS CAPACITY (cu. ft. / sec.)	INLET ID (inch)	GRATE OD (inch)	TOTAL BYPASS CAPACITY (cu. ft. / sec.)	SHALLOW DEPTH (inch)	SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)
FGP-12F	12 X 12	12 X 14	2.8	0.3	0.4	FGP-12SF	15	25	
FGP-15F	15 X 15	15 X 19	4.7	0.8	0.7	FGP-15SF	45	4	
FGP-18F	18 X 18	18 X 20	4.7	0.8	0.7	FGP-18SF	45	4	
FGP-1824F	18 X 22	18 X 24	5.0	1.5	1.2	FGP-1824SF	85	7	
FGP-1836F	18 X 36	18 X 40	6.9	2.3	1.8	FGP-1836SF	13	9	
FGP-2024F	18 X 22	20 X 24	5.9	1.2	1.0	FGP-2024SF	7	55	
FGP-21F	22 X 22	22 X 24	6.1	2.2	1.5	FGP-21SF	1.25	85	
FGP-24F	24 X 24	24 X 27	6.1	2.2	1.5	FGP-24SF	1.25	85	
FGP-2430F	24 X 30	28 X 30	7.0	2.8	1.8	FGP-2430SF	1.6	106	
FGP-2436F	24 X 36	24 X 40	8.0	3.4	2.0	FGP-2436SF	1.95	115	
FGP-2448F	24 X 48	28 X 48	9.3	4.4	2.4	FGP-2448SF	2.5	136	
FGP-28F	28 X 28	32 X 32	6.3	2.2	1.5	FGP-28SF	1.25	85	
FGP-30F	30 X 30	30 X 34	6.1	3.8	2.0	FGP-30SF	2.05	110	
FGP-36F	36 X 36	36 X 40	9.1	4.6	2.4	FGP-36SF	2.65	136	
FGP-3648F	36 X 48	40 X 48	11.5	6.8	3.2	FGP-3648SF	3.9	185	
FGP-48F	48 X 48	48 X 54	13.2	9.5	3.9	FGP-48SF	5.45	235	
FGP-SD24F	24 X 24	28 X 28	6.1	2.2	1.5	FGP-SD24SF	1.25	85	

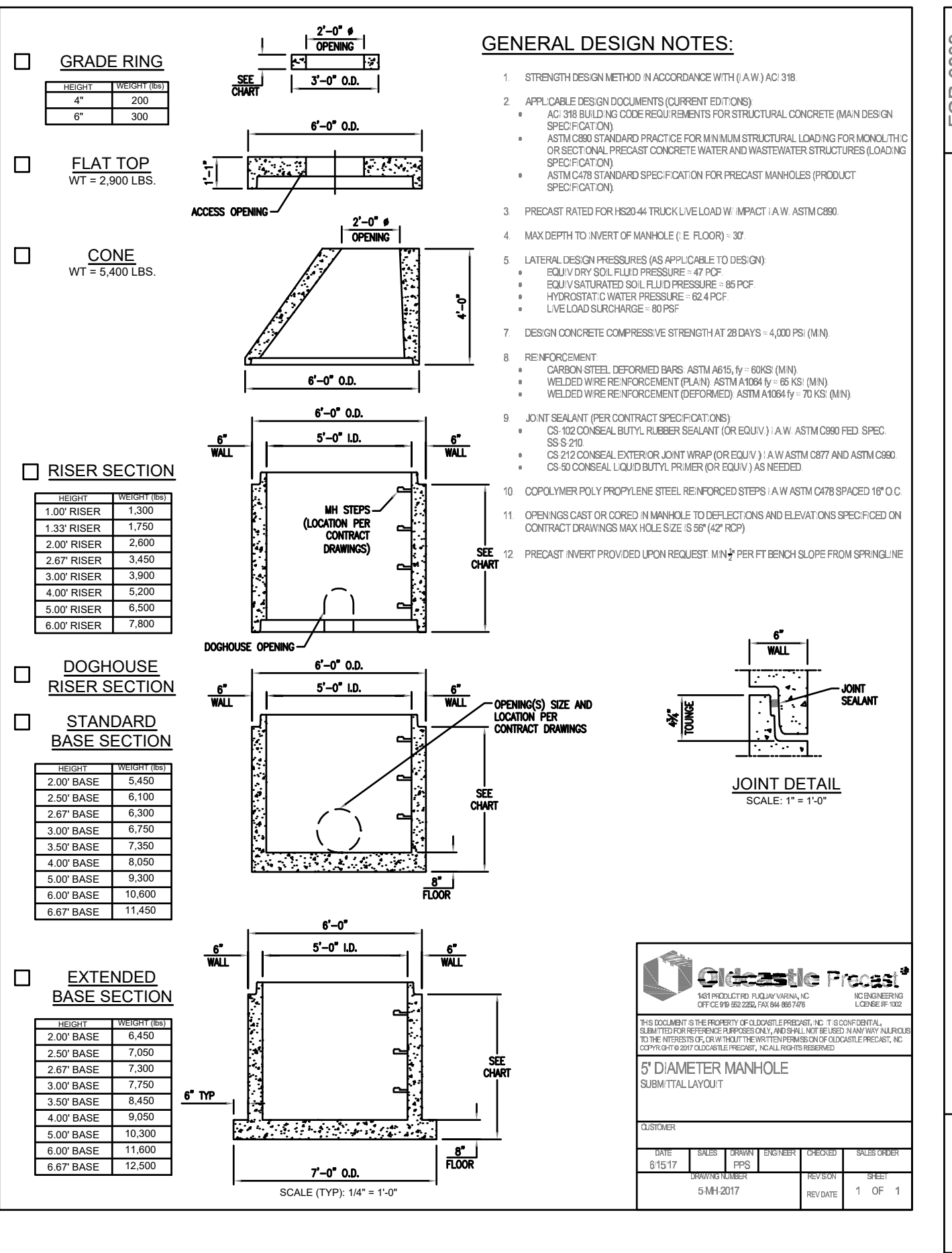
FloGard®
Catch Basin Insert Filter
Grated Inlet Style

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Catch Basin Insert Filter
Grated Inlet Style

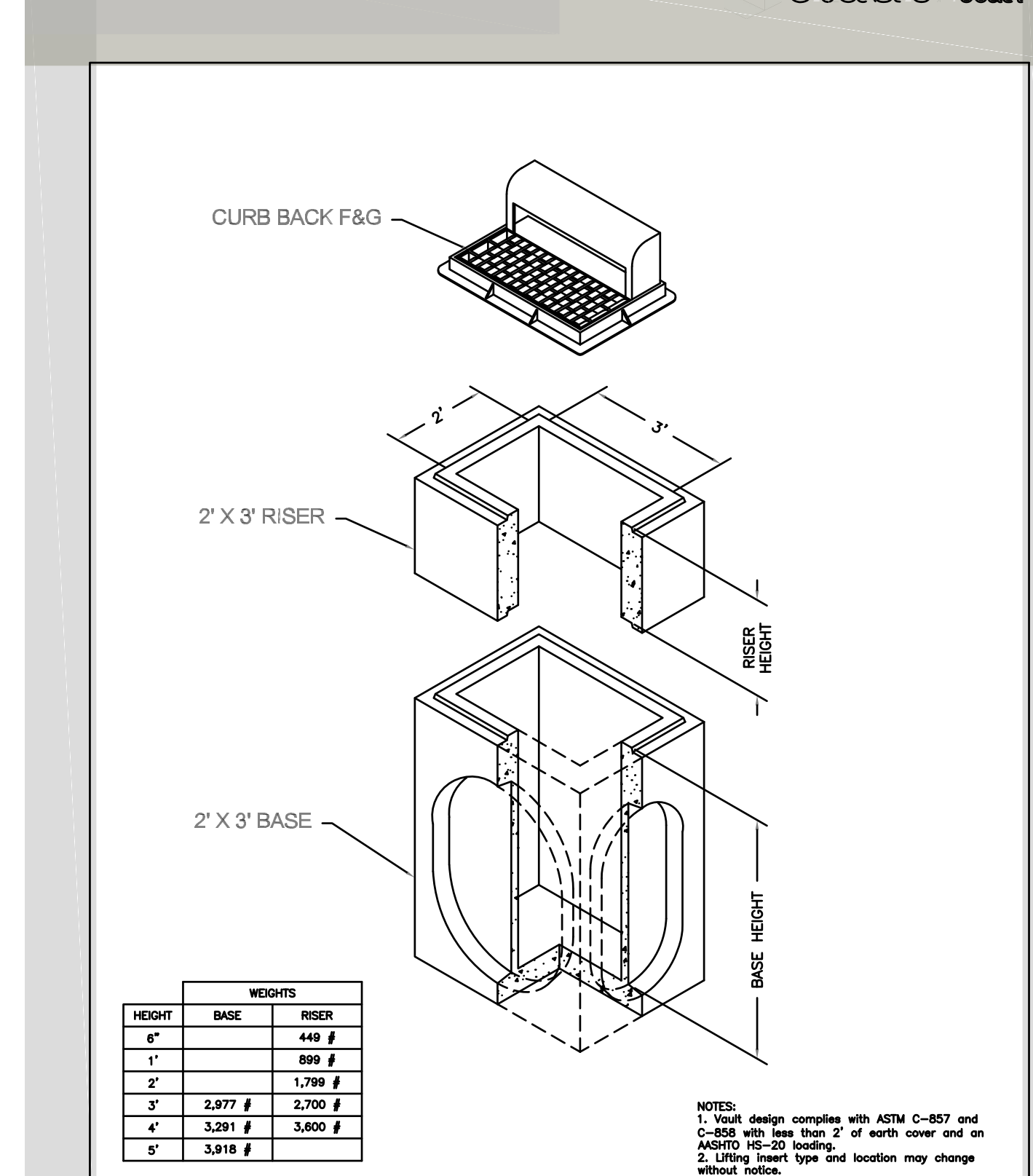
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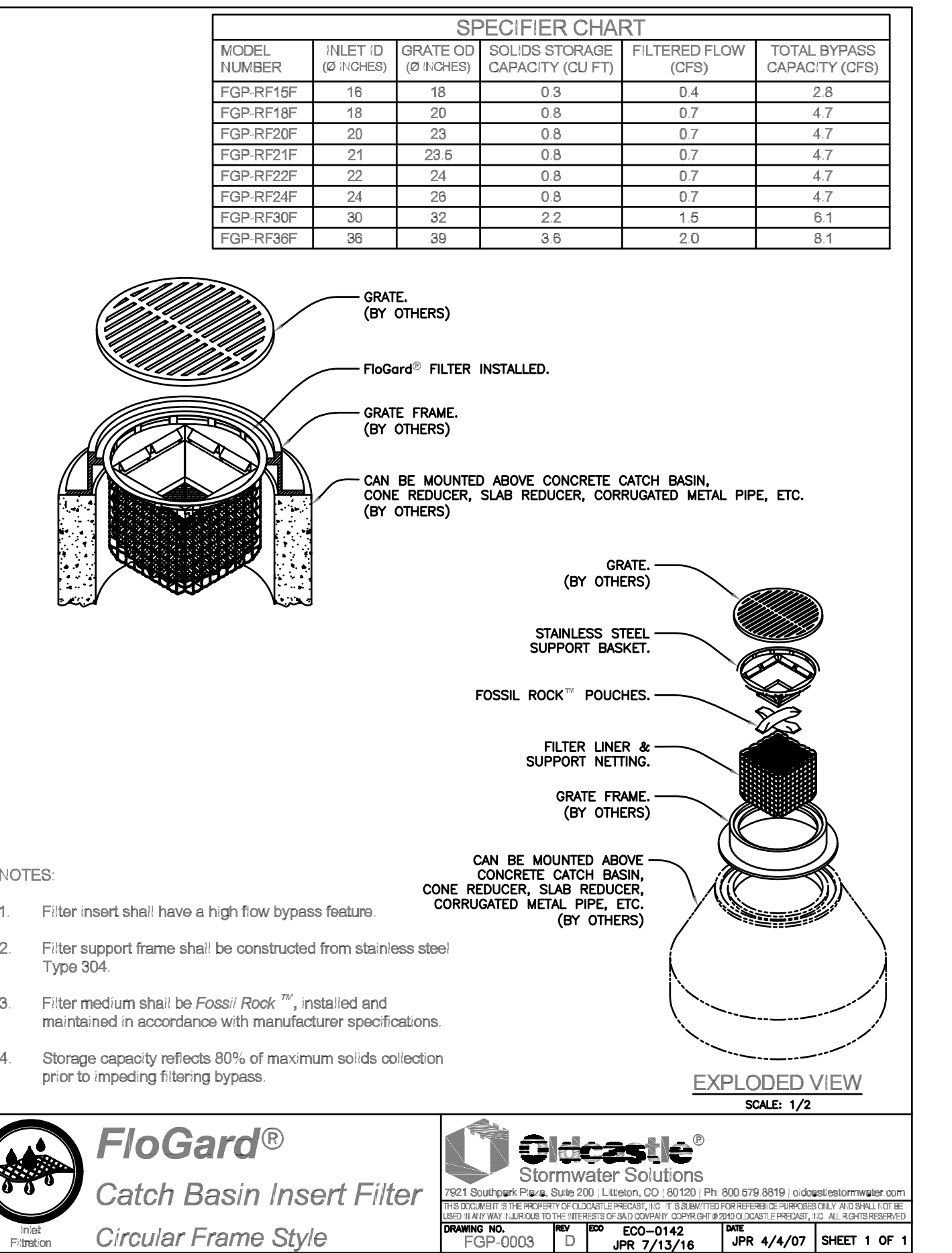
DRAWING NO. FGP-0001 G REV. ECO-0142 DATE: APR 7/13/16 SHEET 2 OF 2



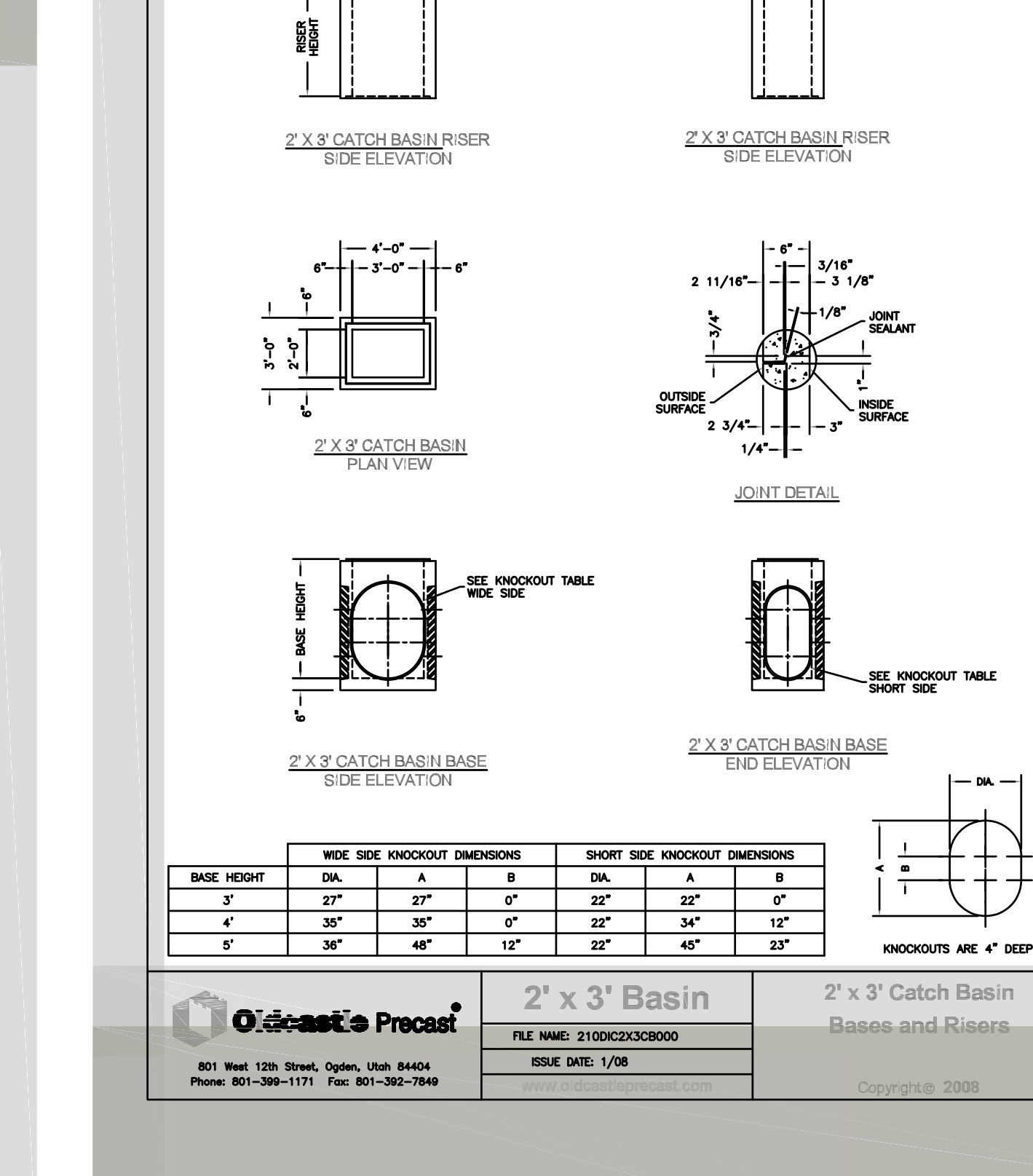
HEIGHT	WEIGHT (LBS)
1.0" RISER	1,300
1.5" RISER	1,700
2.0" RISER	2,000
2.5" RISER	2,400
3.0" RISER	2,800
3.5" RISER	3,200
4.0" RISER	3,600
4.5" RISER	4,000
5.0" RISER	4,400
5.5" RISER	4,800
6.0" RISER	5,200
6.5" RISER	5,600
7.0" RISER	6,000



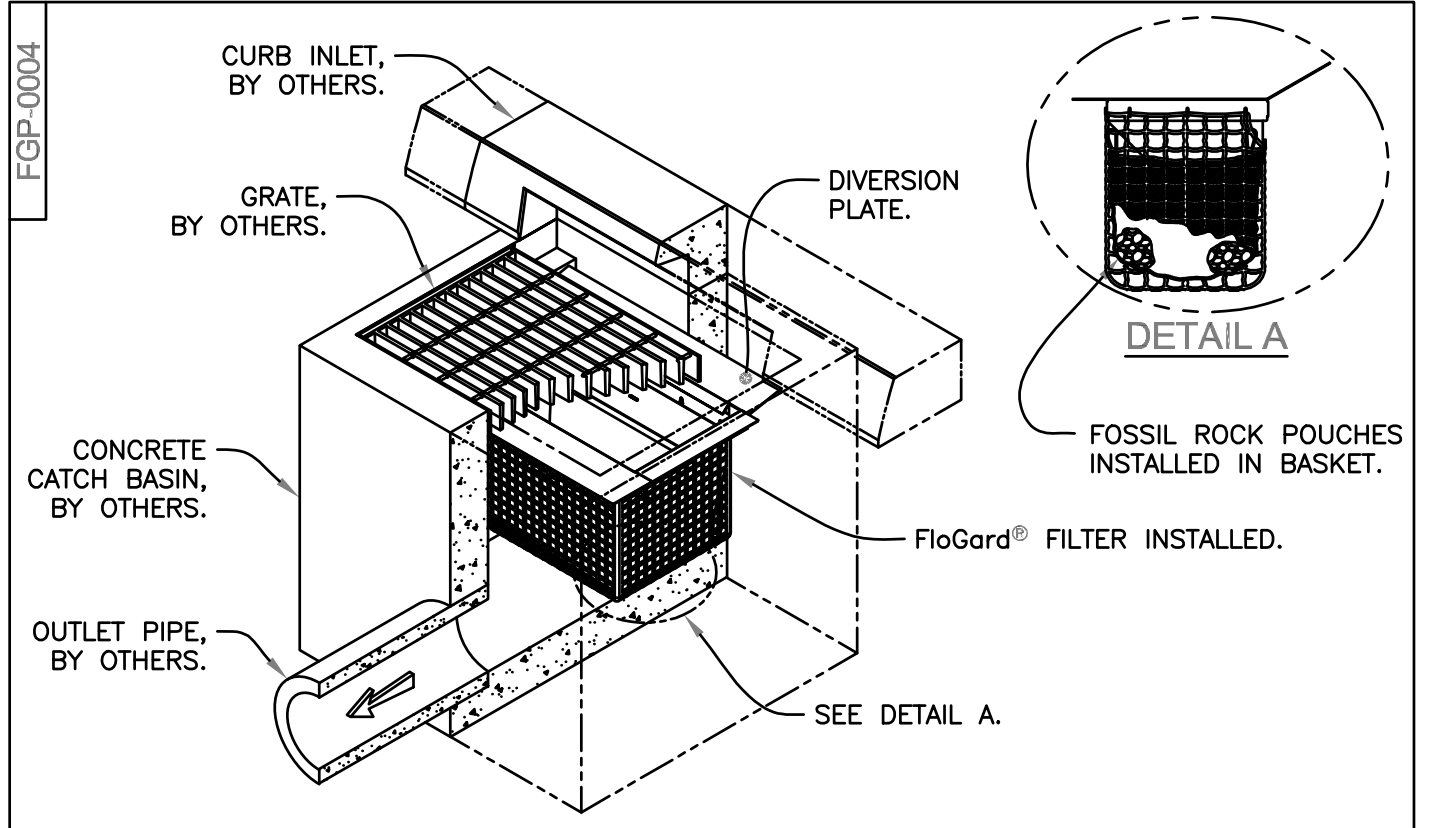
BASE HEIGHT	DA	A	B	DA	A	B
3"	27"	27"	0"	22"	22"	0"
4"	35"	35"	0"	22"	34"	12"
5"	36"	36"	12"	22"	45"	23"



MODEL NUMBER	INLET ID (Ø HIGH)	GRATE OD (Ø HIGH)	SOLIDS STORAGE CAPACITY (CU FT)	FILTERED FLOW (GPM)	TOTAL BYPASS CAPACITY (GPM)
FGP-RF15F	15	18	0.3	0.4	2.8
FGP-RF18F	18	20	0.8	0.7	4.7
FGP-RF20F	20	23	0.8	0.7	4.7
FGP-RF21F	21	23.6	0.8	0.7	4.7
FGP-RF22F	22	24	0.8	0.7	4.7
FGP-RF24F	24	26	0.8	0.7	4.7
FGP-RF30F	30	32	2.2	1.5	6.1
FGP-RF36F	36	39	3.6	2.0	8.1



BASE HEIGHT	DA	A	B	DA	A	B
3"	27"	27"	0"	22"	22"	0"
4"	35"	35"	0"	22"	34"	12"
5"	36"	36"	12"	22"	45"	23"



FLOGARD®
Catch Basin Insert Filter

Catch basin insert designed to capture sediment, gross solids, trash and petroleum hydrocarbons from low ("first flush") flows, even during the most extreme weather conditions.

Example Types, Sizes and Capacities: Additional sizes, including regional and custom options are available.

MODEL NO.	STANDARD & SHALLOW DEPTH			STANDARD DEPTH			SHALLOW DEPTH		
	INLET ID (inch)	GRATE OD (inch)	TOTAL BYPASS CAPACITY (cu. ft. / sec.)	INLET ID (inch)	GRATE OD (inch)	TOTAL BYPASS CAPACITY (cu. ft. / sec.)	SHALLOW DEPTH (inch)	SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)
FGP-1833FGO	18 X 33	18 X 36	7.0	2.5	1.7	FGP-1833FGO8	1.4	1.1	
FGP-1836FGO	18 X 36	18 X 40	6.9	2.3	1.6	FGP-1836FGO8	1.3	9	
FGP-2234FGO	22 X 34	24 X 36	8.1	3.6	2.1	FGP-2234FGO8	2.1	1.4	
FGP-2436FGO	24 X 36	24 X 40	8.0	3.4	2.0	FGP-2436FGO8	1.95	1.15	
FGP-48FGO	48 X 48	20 X 54	6.3	2.2	1.5	FGP-48FGO8	1.25	85	

NOTES:

- Filter insert shall have a high flow bypass feature.
- Filter support frame shall be constructed from stainless steel Type 304.
- Filter medium shall be Fossil Rock™, installed and maintained in accordance with manufacturer specifications.
- Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.

FloGard®
Catch Basin Insert Filter
Combination Inlet Style

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DRAWING NO. FGP-0004 A REV. ECO-0127 DATE: APR 5/18/15 SHEET 1 OF 1



HEIGHT	BASE	RISER
1"	440 #	440 #
2"	890 #	890 #
3"	2,977 #	2,700 #
4"	3,291 #	3,600 #
5"	3,818 #	3,600 #

Know what's below.
Call before you dig.

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ELEV = 3613.45'

JERRY L. MILES
No. C 42593
Civil

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

JERRY L. MILES R.C.E. 42593 - EXP. 3/31/26

PLANS PREPARED BY:

TRLS ENGINEERING Inc.

10770 I AVENUE, SUITE 108
Hesperia, CA 92345
Phone: (760) 948-4900

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

DESIGNED BY: TER
DRAWN BY: TER
CHECKED BY:
APPROVED BY:

RECOMMENDED/APPROVED BY:
LAND DEVELOPMENT ENGINEER DATE

ASST. DIRECTOR OF PUBLIC WORKS
DIRECTOR OF PUBLIC WORKS DATE

DATE: 09-03-2024

PHELAN PINON HILLS
COMMUNITY SERVICES DISTRICT
CIVIC CENTER DEVELOPMENT
PHASE 1
9535 SHEEPCREEK RD. PHELAN, CA. 92329
(APN: 3066-261-10 & 3066-251-18)

SCALE: AS SHOWN
SHEET 19 OF 25
SHEET UD-1

- GRAD-2021-00235
- PRAA-2021-00040
- DRNSTY-2021-00054
- SIP-2021-00031
- NEWNR-2021-00230
- WQMP-2021-00153

WDID# 6B36C401591

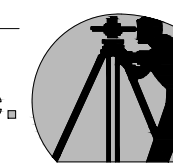
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DRAWN BY: TERLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)	SCALE: AS SHOWN
DESIGNED BY: TER DATE: -		SHEET 20 OF 25
APPROVED BY: DATE: -	UTILITY DETAILS	SHEET UD-2

COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS			
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EROSION CONTROL CONSTRUCTION NOTES

- (A) INSTALL FIBER ROLLS PER CASQA DETAIL SE-5, DRAWING E-2.
- (B) CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE/EXIT PER CASQA DETAIL TC-1, DRAWING E-2.
- (C) CONSTRUCT CONCRETE WASHOUT PER CASQA DETAIL WM-8, DRAWING E-2.
- (D) INSTALL SILT FENCE PER CASQA DETAIL SE-1, DRAWING E-2.
- (E) INSTALL SANDBAG BARRIER PER CASQA DETAIL SE-8, DRAWING E-2.
- (F) CONTRACTOR TO PROVIDE DUST CONTROL ON A DAILY BASIS BY WATERING.
- (G) PROVIDE STREET SWEEPING PER CASQA DETAIL SE-7 DRAWING E-5.
- (H) CONTRACTOR TO INSTALL BONDED FIBER MATRIX TO ALL UNDEVELOPED AREAS UPON COMPLETION OF GRADING PER SECTION 21-2.02J OF THE 2022 CALTRANS STANDARD SPECIFICATIONS- SEE THIS SHEET.

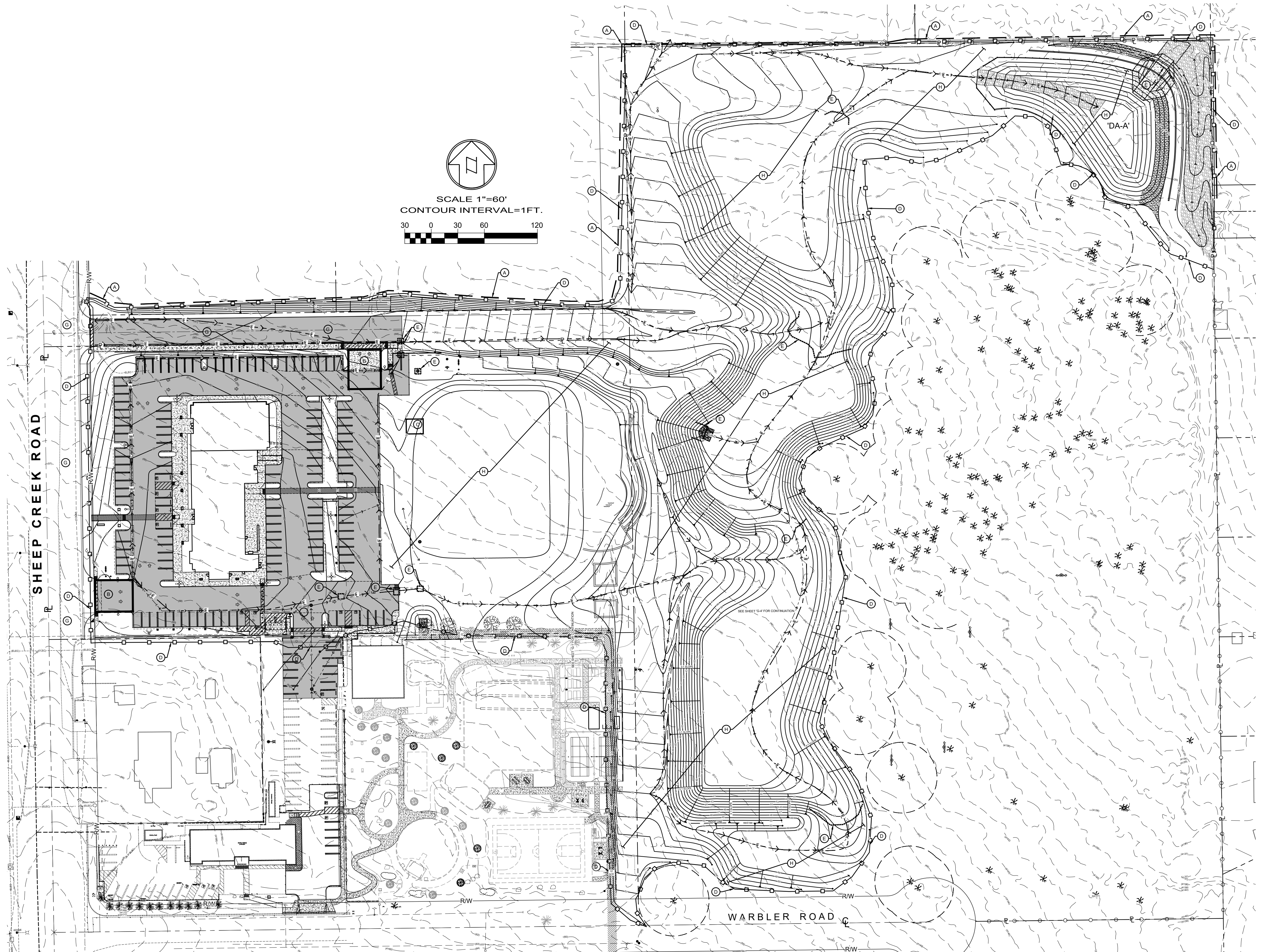
CALTRANS STANDARD SPECIFICATION

21-2.02J Bonded Fiber Matrix

Bonded fiber matrix must be a hydraulically-applied material composed of fiber and tackifier and may also include seed and fertilizer as shown.
 Fiber for bonded fiber matrix must be 100 percent wood fiber and comply with the specifications for fiber under section 21-2.02D, except that at least 50 percent is retained when passed through a no. 25 sieve.
 Tackifier for bonded fiber matrix must:
 1. Be bonded to the fiber or prepackaged with the fiber by the manufacturer
 2. Contain a minimum of 10 percent of the combined weight of the dry fiber, activating agents, and additives
 3. Be an organic, high viscosity colloidal polysaccharide with activating agents or a blended hydrocolloid-based binder

**COUNTY OF SAN BERNARDINO
 - EROSION CONTROL NOTES**

1. IN CASE OF EMERGENCY, CALL PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT AT (760) 868-1212.
2. POLLUTION AND EROSION PREVENTION MEASURES, ALSO KNOWN AS BEST MANAGEMENT PRACTICES (BMPs), MUST BE INSTALLED PRIOR TO GRADING. THESE MEASURES, INCLUDING THE PREVENTION OF SEDIMENTATION OR FLOOD DAMAGE, TO OFFSITE PROPERTY SHALL BE ADEQUATE WHETHER OR NOT AN EROSION CONTROL PERMIT IS REQUIRED.
3. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
4. EROSION CONTROL DEVICES SHALL BE FUNCTIONING AT ALL TIMES. IN CASE OF FAILURE, RAPID CONSTRUCTION OF EMERGENCY DEVICES SHALL BE IMPLEMENTED.
5. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
6. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
7. EXCESS OR WASTE CONCRETE MUST BE CONTAINED ONSITE. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ONSITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
8. DEVELOPERS/ CONTRACTORS ARE RESPONSIBLE TO ENSURE ALL EROSION CONTROL DEVICES AND BMPs ARE INSTALLED AND FUNCTIONING PROPERLY PER PLAN. PROPER PRECAUTION SHALL BE CONSIDERED WHEN 50% OR GREATER PROBABILITY OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL.
9. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
10. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
11. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
12. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
13. ALL STORM WATER CAPTURE DEVICES SHALL BE PROTECTED AT ALL TIMES.



WDID# 6B36C401591

<ul style="list-style-type: none"> • GRAD-2021-00235 • PRAA-2021-00040 • DRNSTY-2021-00054 	<ul style="list-style-type: none"> • SIP-2021-00031 • NEWNR-2021-00230 • WQMP-2021-00153
DRAWN BY: TRLS DATE: 09-03-2024	PHELAN PINON HILLS COMMUNITY SERVICES DISTRICT CIVIC CENTER DEVELOPMENT PHASE 1 9535 SHEEPCREEK RD, PHELAN, CA. 92329 (APN: 3066-261-10 & 3066-251-18)
DESIGNED BY: TER DATE:	SHEET 21 OF 25
APPROVED BY: ASST. DIRECTOR OF PUBLIC WORKS DATE:	SHEET E-1

**COUNTY OF SAN BERNARDINO
 DEPARTMENT OF PUBLIC WORKS**

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RECOMMENDED/APPROVED BY:	ASST. DIRECTOR OF PUBLIC WORKS		
LAND DEVELOPMENT ENGINEER	DATE	DIRECTOR OF PUBLIC WORKS	DATE

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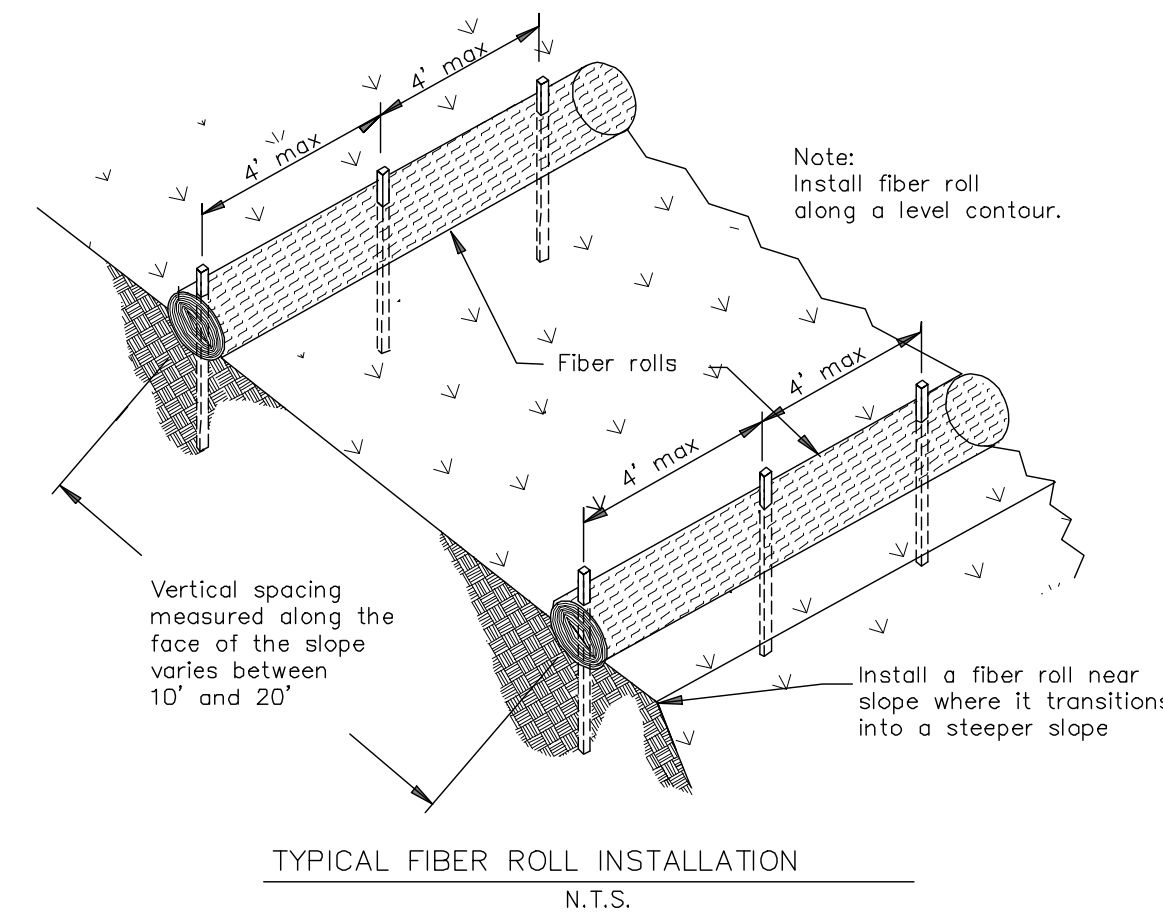
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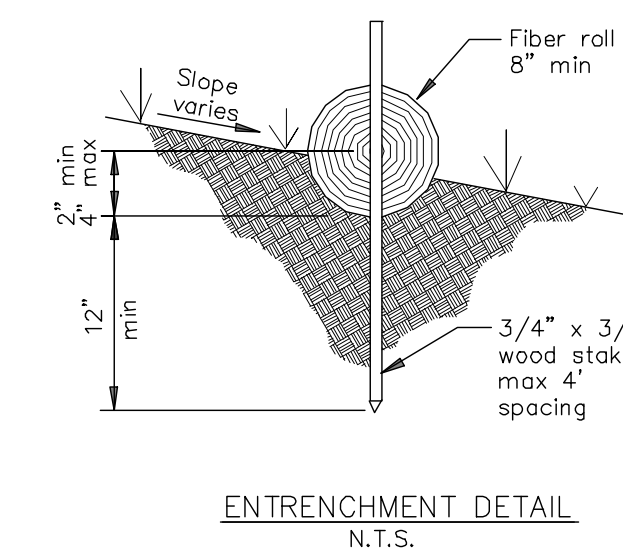


Fiber Rolls

SE-5



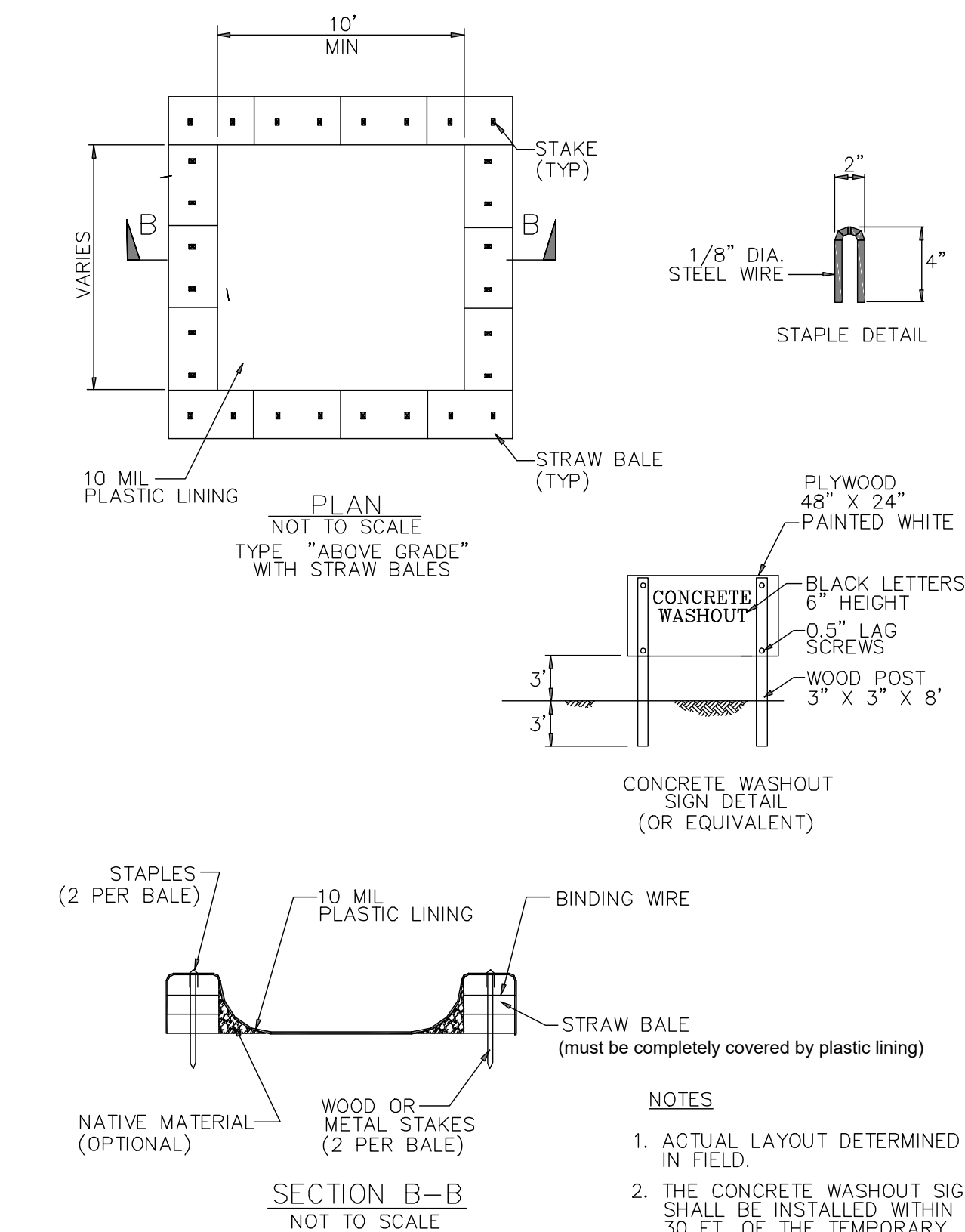
TYPICAL FIBER ROLL INSTALLATION
N.T.S.



ENTRENCHMENT DETAIL
N.T.S.

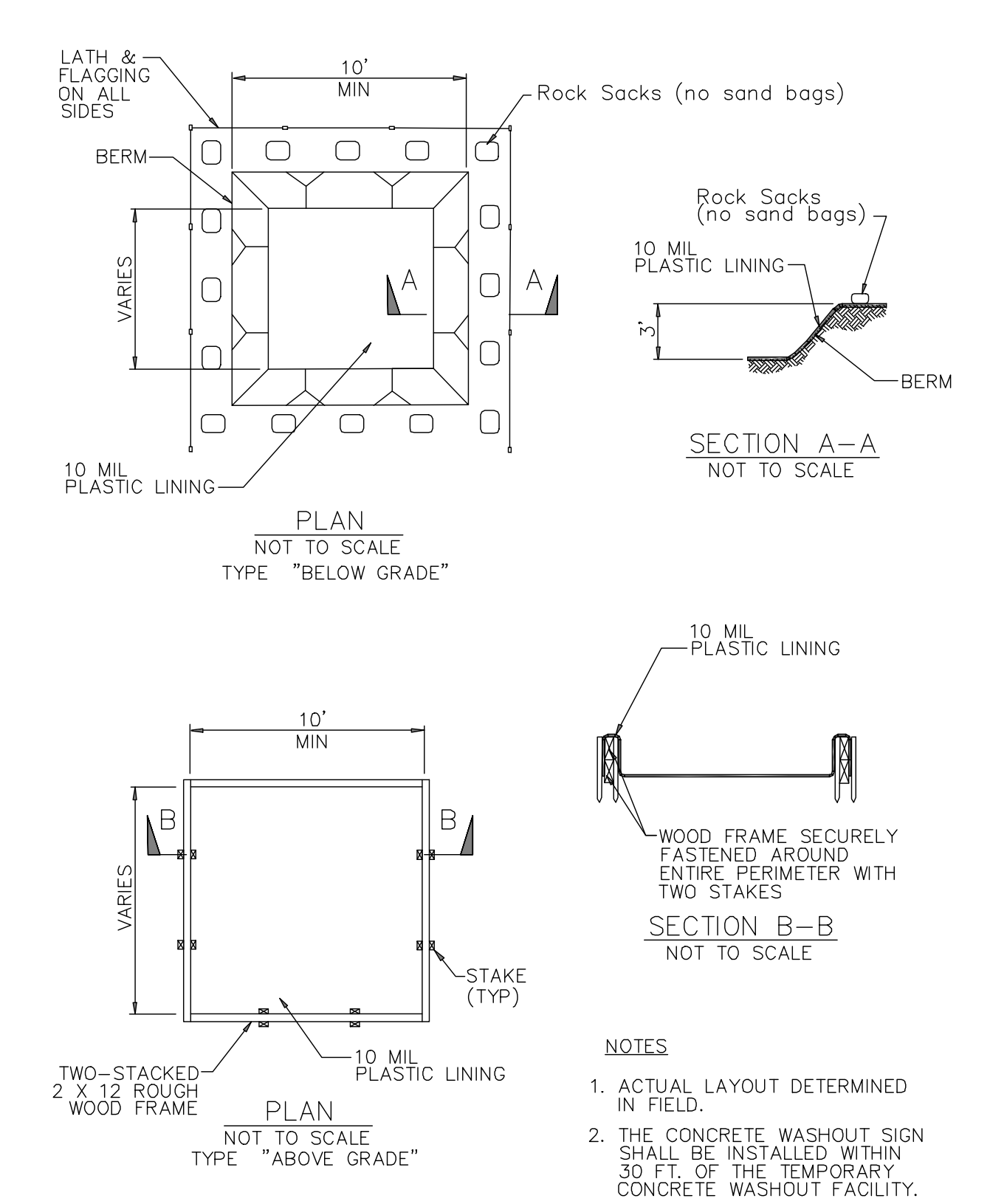
NOTES:
If more than one fiber roll is placed in a row, the rolls must be overlapped, not abutted.
Turn the ends of the fiber roll up-slope to prevent runoff from going around the roll.

Concrete Waste Management WM-8



NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Concrete Waste Management WM-8



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TRLS
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EROSION CONTROL DETAILS

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SHEET
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SHEET
E-2

