

Cover Sheet

Document Title:	Bid Set - Street Improvement Plans
Prepared By:	San Bernardino County
Date:	03/09/2023
Version:	Permit SIP-2021-00031
Project Name:	PPHCSD Civic Center Phase 1
Client/Stakeholder:	PPHCSD
Confidentiality:	[Public/Internal/Confidential]

Document Overview

This specification document outlines the requirements, standards, and key details for the project or product described above. The cover sheet provides a summary of essential information to identify and track the document throughout its lifecycle.

The Street Improvement plans identify a pavement section but also includes a note that the final pavement section will need to be approved by the County during construction. The County will require a final “Pavement Design” prepared by the Geotechnical Engineer be submitted for approval. A “Traffic Index” calculation that is based on a current traffic count will be needed for the pavement design.

Contact Information

- Prepared by: David Evans & Assoc, Rob Kilpatrick R.C.E., 760-524-9100, rkilpatrick@deainc.com

Revision History

Version	Date	Description	Author

STREET IMPROVEMENT GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE COMPLETED IN ACCORDANCE WITH THIS PLAN AND COMPLY WITH THE LATEST SAN BERNARDINO COUNTY ROAD PLANNING AND DESIGN STANDARDS MANUAL AS WELL AS THE SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS, AND THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS GENERAL PERMIT CONDITIONS AND TRENCH SPECIFICATIONS
2. BENCH MARK DATA: SEE BOTTOM LEFT CORNER OF TITLEBLOCK. ELEVATION: 3616.50
3. STREET MARKERS PER SAN BERNARDINO COUNTY STANDARD NO. 303, 304A AND 303B SHALL BE CONSTRUCTED AT EACH INTERSECTION.
4. STREET MARKERS SHALL BE CONSTRUCTED AT EACH INTERSECTION IN ACCORDANCE WITH APPLICABLE SAN BERNARDINO COUNTY STANDARDS. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY AND STATE SPECIFICATIONS.
5. A PERMIT WILL BE REQUIRED FROM THE COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS PRIOR TO ANY ENCROACHMENT OR CONSTRUCTION WITHIN THE COUNTY OF SAN BERNARDINO EASEMENT OR RIGHTS-OF-WAY.
6. LEAVE 8"X8" BLOCKOUTS IN SIDEWALKS FOR MAILBOXES, ETC. WHEN SIDEWALK IS PLACED ADJACENT TO CURB.
7. IF ASPHALT CONCRETE IS TO BE PLACED DIRECTLY ON SUBGRADE OF ROAD OR DRAINAGE FACILITIES A SOIL STERILANT REGISTERED BY THE E.P.A. FOR USE UNDER A.C. AND P.C.C. SHALL BE UNIFORMLY APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE FOR THE FULL PAVEMENT WIDTH PRIOR TO PAVING.
8. THE PAVEMENT SECTION WILL BE DETERMINED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PAVEMENT ENGINEER, AND WILL BE BASED ON APPLICANT'S SUBMITTALS AS REQUIRED BY THE DPW TRANSPORTATION DIVISION'S "GENERAL PERMIT CONDITIONS AND TRENCH SPECIFICATIONS" IN ACCORDANCE WITH YOUR TRANSPORTATION DEPARTMENT PERMIT. THIS DOCUMENT IS AVAILABLE ONLINE AT <http://cms.sbcounty.gov/dpw/Operations/PermitsOperationsSupportDivision/Transportation.aspx> PLEASE CONTACT YOUR TRANSPORTATION PERMIT INSPECTOR AND SUBMIT THE REQUIRED INFORMATION AS EARLY AS POSSIBLE TO AVOID CONSTRUCTION DELAYS. ALLOW UP TO 3 WEEKS FOR THE PAVEMENT SECTION.
9. COMPACTION TESTS OF EMBANKMENT CONSTRUCTION, TRENCH BACKFILL, COMPACTING ORIGINAL GROUND, ALL SUBGRADES SHALL BE PERFORMED AT NO COSTS TO SAN BERNARDINO COUNTY. A WRITTEN REPORT WITH THESE COMPACTION TESTS SHALL BE SUBMITTED TO THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS, PERMITS/OPERATION SUPPORT DIVISION, TRANSPORTATION PERMIT SECTION FOR APPROVAL PRIOR TO PLACEMENT OF BASE MATERIALS AND/OR SURFACING.
10. AT THE COMPLETION OF PAVING, A MATERIALS REPORT SHALL BE SUBMITTED TO THE SAN BERNARDINO COUNTY PUBLIC WORKS DEPARTMENT, PERMITS/OPERATION SUPPORT DIVISION, TRANSPORTATION PERMIT SECTION, LISTING ALL TESTS OR DETERMINATIONS COMPLETED TO VERIFY:
A. R-VALUE, SIEVE ANALYSIS AND SAND EQUIVALENT OF AGGREGATE BASES.
B. STABILITY, OIL CONTENT AND SIEVE ANALYSIS OF ASPHALT SURFACING.
11. THE WATER MAINS AND THE GAS MAINS SHALL BE PLACED UNDERGROUND PRIOR TO PAVING CONSTRUCTION. THE SERVICE LATERALS FOR THE WATER SYSTEM SHALL BE INSTALLED AT A LATER DATE. WHERE IT IS NECESSARY TO CROSS PAVEMENT, SERVICE LATERALS SHALL BE BORED INTO PLACE.
12. FILL AND GRADE TO DRAIN ALL LOW AREAS ABUTTING TRACT ROADS TO A MINIMUM OF 1% GRADES.
13. ALL LATERAL CUTS INTO COUNTY MAINTAINED ROADWAYS SHALL BE TESTED TO VERIFY TO 90% RELATIVE COMPACTION (R.C.) AT VARYING DEPTHS TO WITHIN 0.5' OF GRADING PLANE. THE TOP 0.5' SHALL BE DENSIFIED TO 95%.
14. ALL LONGITUDINAL CUTS SHALL BE TESTED IN ACCORDANCE WITH THE SPECIFIED LIMITS AND AS OUTLINED IN SECTION 6 OF THE SAN BERNARDINO COUNTY STANDARDS AND SPECIFICATIONS.
15. IMMEDIATELY FOLLOWING REMOVAL OF EXISTING PAVEMENT OR DIKE OR CURB AND/OR GUTTER, THE CONTRACTOR SHALL DILIGENTLY PURSUE THIS PORTION OF WORK UNTIL COMPLETION.
16. DEPARTMENT OF PUBLIC WORKS APPROVAL DOES NOT INCLUDE WATER SEWER SYSTEM OR ESTIMATE OF QUANTITIES.
17. EXPANSIVE SOILS: IN EXPANSIVE SOIL AREAS, THE SUBGRADE UNDER CURBS, GUTTERS, SIDEWALK AND DRIVEWAY APPROACHES SHALL BE SCARIFIED TO THE DEPTH OF AT LEAST EIGHT (8) INCHES AND MOISTURE SHALL BE APPLIED TO MAINTAIN FREE WATER ON THE SURFACE FOR AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE AND THE SUBGRADE SHALL THEN BE PREPARED WITHOUT COMPACTION EFFORT.
18. CURB AND GUTTER, CROSS GUTTER AND SPANDRELS SHALL BE SO CONSTRUCTED THAT A MINIMUM OF PONDING OCCURS, SECTIONS HAVING GRADIENTS OF 0.5% OR FLATTER SHALL BE WATER TESTED IN THE PRESENCE OF THE INSPECTOR IMMEDIATELY PRIOR TO ACCEPTANCE. SECTIONS WHICH HAVE WATER PONDING MORE THAN 6" WIDE OR MORE THAN 4' LONG SHALL BE SAW-CUT AND REMOVED IN LENGTHS NOT LESS THAN 4' AND REPLACED TO REDUCE PONDING TO THE MAXIMUM SPECIFIED.
19. IF DURING CONSTRUCTION, GROUND WATER IS ENCOUNTERED, A SYSTEM APPROVED BY THE SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE INSTALLED TO DEWATER SAID AREA AT THE DIRECTION OF THE SOILS ENGINEER.
20. THIS PRIVATE ROAD SHALL NOT BE ENTERED INTO THE COUNTY MAINTAINED ROAD SYSTEM.
21. THE ENGINEER SHALL INSPECT AND CERTIFY THAT ALL PRIVATE ROAD AND DRAINAGE IMPROVEMENTS HAVE BEEN BUILT IN ACCORDANCE WITH THE APPROVED PLANS.
22. ALL 0.40% OR LESS CURB GRADE LINES SHALL BE STAKED AT 25' INTERVALS AND FORMS CERTIFIED BY THE ENGINEER BEFORE POURING CONCRETE.
23. EXISTING COUNTY ROADS THAT WILL REQUIRE RECONSTRUCTION SHALL REMAIN OPEN FOR TRAFFIC AT ALL TIMES WITH ADEQUATE DETOURS DURING ACTUAL CONSTRUCTION.
24. THE PRIVATE ENGINEER IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISE THE PLAN FOR APPROVAL BY THE COUNTY OF SAN BERNARDINO.
25. SHOULD ANY EXISTING STOP SIGN BE LOCATED ON A DEVELOPED CORNER OF AN INTERSECTION, IT MUST BE MAINTAINED IN PLACE NEXT TO THE EXISTING PAVEMENT UNTIL SUCH TIME AS THE WIDENED ROADWAY IS OPEN FOR TRAFFIC. AT THAT TIME, IT WILL BE RELOCATED THREE (3) FEET BEHIND THE NEW CURB IN THE VICINITY OF THE BEGINNING OF THE CURB RETURN OR AS OTHERWISE DIRECTED BY THE ENGINEER.

SAN BERNARDINO COUNTY TRAFFIC CONTROL - GENERAL NOTES

- NOTE 1: ALL SIGNING, STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION.
- NOTE 2: ALL STRIPING AND PAVEMENT MARKINGS SHALL BE PAINTED IN CONFORMANCE WITH THE 2018 CALTRANS STANDARD PLANS DATED MAY 31, 2018.
- NOTE 3: ALL STRIPING (LONG LINE) AND PAVEMENT MARKINGS SHALL BE RETROREFLECTIVE PAINT.
- NOTE 4: ALL SIGNS SHALL BE OF HIGH INTENSITY (FHWA TYPE III/IV) RETROREFLECTIVE SHEETING EXCEPT:
A. STOP SIGNS SHALL BE DIAMOND GRADE (FHWA TYPE VII IN RURAL SETTINGS AND TYPE IX IN URBAN SETTINGS)
B. "NO PARKING" SIGNS SHALL BE OF SUPER ENGINEERING GRADE (FHWA TYPE II) RETROREFLECTIVE SHEETING.
C. SCHOOL SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT YELLOW-GREEN (FYG) RETROREFLECTIVE SHEETING.
D. STREET NAME MARKERS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) RETROREFLECTIVE SHEETING AND CONFORM TO COUNTY STANDARD 303.
E. CONSTRUCTION SIGNS SHALL BE OF DIAMOND GRADE (FHWA TYPE IX) FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.
- NOTE 5: ALL DELINEATORS, CHANNELIZERS, AND OBJECT MARKERS SHALL BE OF FHWA TYPE VII RETROREFLECTIVE SHEETING.
- NOTE 6: SIGNS SHALL BE MOUNTED ON METAL POSTS SIMILAR TO COUNTY STANDARDS 303(A) AND 303(B).
- NOTE 7: ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS NOT SHOWN ON PLANS SHALL BE REMOVED BY THE CONTRACTOR. REMOVAL SHALL BE ACCOMPLISHED BY SANDBLASTING, GRINDING, OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- NOTE 8: ALL CONFLICTING SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED BY THE CONTRACTOR. RELOCATABLE SIGNS SHALL BE INSTALLED AS SPECIFIED ON THE PLANS OR AS DIRECTED BY COUNTY REPRESENTATIVE.
- NOTE 9: ALL UNPROTECTED LOCATIONS RESULTING IN ISOLATED ABRUPT DEPRESSIONS OR ELEVATED OBJECTS (I.E. CATCH BASINS, HEADWALLS, POWER POLES, END TREATMENT OF ASPHALT DIKES AND CONCRETE CURBS) SHALL BE PROTECTED BY DELINEATORS OR BARRIERS PER THE CALIFORNIA MUTCD LATEST EDITION.
- NOTE 10: ALL EXISTING SIGNING, STRIPING AND PAVEMENT MARKINGS (I.E. CROSS STREET STOP, STOP LIMIT LINE, AND CROSSWALK IF REMOVED/OBLITERATED, SHALL BE REPLACED/RESTORED OF SAME KIND, AND IN CONFORMANCE WITH THE CALIFORNIA MUTCD LATEST EDITION. PAVEMENT MARKINGS) NOT SHOWN ON PLANS,
- NOTE 11: THE CONTRACTOR SHALL NOTIFY COUNTY REPRESENTATIVE TO SCHEDULE A FINAL REVIEW (WALK THROUGH) WITH TRAFFIC DIVISION PERSONNEL FOR APPROVAL OF TRAFFIC CONTROL DEVICES PRIOR TO PROJECT ACCEPTANCE.

DECLARATION OF ENGINEER OF RECORD

I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS SHOWN ON THESE PLANS COMPLIES WITH ALL PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER OF RECORD FOR THE PLANS, I ASSUME FULL RESPONSIBILITY FOR THE DESIGN OF THE IMPROVEMENTS. WITH RESPECTS TO THE PLAN CHECK PERFORMED BY THE COUNTY OF SAN BERNARDINO, I UNDERSTAND AND ACKNOWLEDGE THE FOLLOWING: (1) THE PLAN CHECK IS A REVIEW FOR THE LIMITED PURPOSE OF ENSURING THE PLANS COMPLY WITH THE COUNTY'S STANDARDS, PROCEDURES, AND ORDINANCES, (2) THE PLAN CHECK IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OF THE DESIGN OF THE IMPROVEMENTS, AND (3) THE PLAN CHECK DOES NOT RELIEVE ME OF MY LEGAL AND PROFESSIONAL RESPONSIBILITY FOR THE DESIGN OF THE IMPROVEMENTS. AS THE ENGINEER OF RECORD, I AGREE TO DEFEND, INDEMNIFY, AND HOLD HARMLESS THE COUNTY, ITS ELECTED OFFICIALS, EMPLOYEES, AND AGENTS FROM ANY AND ALL ACTUAL OR ALLEGED CLAIMS, DEMANDS, CAUSES OF ACTION, LIABILITY, LOSS, DAMAGE, OR INJURY TO PROPERTY OR PERSON, INCLUDING WRONGFUL DEATH, WHETHER IMPOSED BY A COURT OF LAW OR BY ADMINISTRATIVE ACTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENTAL AGENCY, ARISING OUT OF OR INCIDENT TO ANY NEGLIGENT ACTS, OMISSIONS, OR ERRORS BY THE ENGINEER OF RECORD, ITS EMPLOYEES, CONSULTANTS, OR AGENTS.

1-27-2023
(Date)

ROBERT A. KILPATRICK
(Print Name)



BENCHMARK
U.S.G.S. BENCHMARK H 35, LOCATED 3.0 MI NORTH ALONG JOHNSON RD. FROM THE INTERSECTION OF JOHNSON RD. 67 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= 3616.50

PREPARED BY:



PREPARED UNDER THE SUPERVISION OF:

ROBERT A. KILPATRICK

18484 Outer Highway 18 North, Suite 225
Apple Valley California 92307
Phone: 760.524.9100
RKilpatrick@deainc.com

1-27-2023
DATE:



MARK	REVISIONS	APPR	DATE
	Bid Set - PPHCSD Civic Center Phase 1 - Street Improvement Plans		

SAN BERNARDINO COUNTY	
DPW	LUS
OSVALDO ROQUE SUPERVISING ENGINEER, TRAFFIC DIVISION	02/27/2023 DATE
JEREMY JOHNSON ENGINEERING MANAGER, TRAFFIC DIVISION	03/01/2023 DATE

NOTE TO CONTRACTOR

DEMOLITION, SIGNAGE / STRIPING AND CONSTRUCTION QUANTITIES SHOWN HEREON ARE ESTIMATED. THE CONTRACTOR WILL NEED TO PROVIDE THEIR OWN QUANTITY TAKEOFFS FOR BIDDING PURPOSES.

BASIS OF BEARINGS:

TAKEN FROM THE WEST LINE OF LOT 6 PER TRACT MAP 10838, M.B. 157/73-74
BEING: N00°32'01"W

STREET IMPROVEMENT PLAN
APN 3066-261-10
SHEEP CREEK ROAD

ABBREVIATIONS

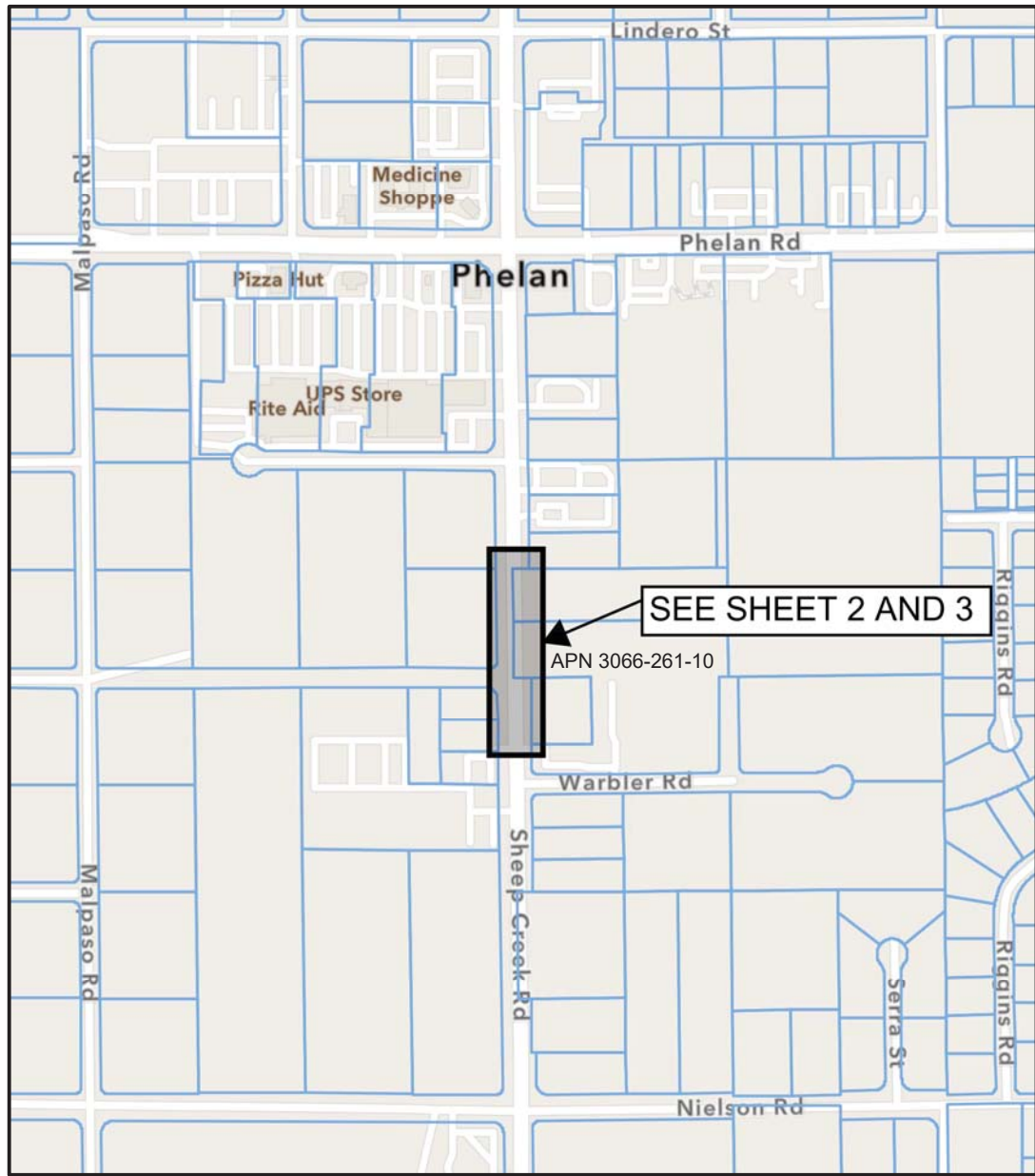
AP	ASPHALT PAVEMENT
BC	BEGIN CURVE
BVC	BEGIN VERTICAL CURVE
BCR	BEGIN CURB RETURN
BOT	BOTTOM
BW	BACK OF WALK
C&G	CURB AND GUTTER
CB	CATCH BASIN
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
CL OR CL	CENTERLINE
CONST	CONSTRUCTION
DWY	DRIVEWAY
EC	END CURVE
ECR	END CURB RETURN
EG	EXISTING GROUND
EP OREOP	EDGE OF PAVEMENT
EVC	END VERTICAL CURVE
EXIST OR EX	EXISTING
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FPS	FEET PER SECOND
FPS	FINISHED SURFACE
FUT	FUTURE
GB	GRADE BREAK
HP	HIGH POINT
INT	INTERSECTION
INV	INVERT
LN	LINEAR FEET
LOC	LENGTH OF CURVE
LP	LOW POINT
LT	LEFT
MH	MANHOLE
MVC	MIDDLE OF VERTICAL CURVE
P/L	PROPERTY LINE
PCR	POINT OF REVERSE CURVE
PR	PROPOSED
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERCEPTION
R/W	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
S	SLOPE
SD	STORM DRAIN LINE
SL	STREET LIGHT
SWR	SANITARY SEWER LINE
STA	STATION
TC	TOP OF CURB
TF	TOP OF FOOTING
TW	TOP OF WALL
TYP	TYPICAL
TRANS	TRANSITION
V	VELOCITY
Vmax	MAXIMUM VELOCITY
VC	VERTICAL CURVE
W	WIDTH
WM	WATER METER
WTR	WATER LINE
(100.00)	INDICATES EXISTING ELEVATION
100.00	INDICATES FINISH ELEVATION

LEGEND

	DIRT TRAVELED WAY
	SLOPE
	CENTERLINE
	PROPERTY LINE
	RIGHT-OF-WAY
	FENCE
	FUTURE IMPROVEMENTS
	WALL/PLANTER
	POWER POLE
	GUY WIRE
	EXISTING FIRE HYDRANT
	EXISTING VALVE
	PEDESTAL
	STREET LIGHT
	STREET SIGN

PAVEMENT LEGEND

	PROPOSED AC PAVEMENT
	PROPOSED COLD MILL AND OVERLAY
	PROPOSED PCC PAVEMENT



INDEX MAP

NTS

DEMOLITION NOTES

QUANTITIES

1	REMOVE EXISTING A.C. PAVEMENT.	5760 S.F.
2	REMOVE EXISTING P.C.C. PAVEMENT.	266 S.F.
3	REMOVE EXISTING P.C.C. DRIVEWAY APPROACH.	670 S.F.
4	REMOVE EXISTING 8" CURB AND GUTTER.	27 L.F.
5	REMOVE EXISTING PLANTER CURB.	80 L.F.
6	REMOVE EXISTING CHAINLINK FENCING.	390 L.F.
7	REMOVE EXISTING WOOD FENCING.	90 L.F.
8	DEMOLISH AND REMOVE ABANDONED WATER RESERVOIR PER P.P.H.C.S.D. REQUIREMENTS.	1 LOC.
9	REMOVE EXISTING WOOD SIGN.	1 EA.
10	REMOVE EXISTING STRIPING.	2700 L.F.
11	REMOVE REFLECTOR POST.	1 EA.
12	REMOVE MAILBOX AND RELOCATE PER U.S.P.S. REQUIREMENTS.	1 EA.
13	PROTECT EXISTING WATER GATE VALVE CAN IN PLACE. VALVE CAN TO BE ADJUSTED TO FINISHED GRADE. SEE STREET IMPROVEMENT PLAN SHEET No.3.	6 EA.
14	PROTECT EXISTING FIRE HYDRANT/BLOW OFF ASSEMBLY IN-PLACE.	1 EA.
15	PROTECT EXISTING WATER METER BOX IN-PLACE.	1 EA.
16	REMOVE AND SALVAGE EXISTING FIRE HYDRANT ASSEMBLY AND RELOCATE PER SHEEP CREEK WATER COMPANY STANDARDS. SEE STREET IMPROVEMENT PLAN SHEET No.3.	
17	REMOVE AND SALVAGE EXISTING WATER METER/BOX AND RELOCATE PER SHEEP CREEK WATER COMPANY STANDARDS. SEE STREET IMPROVEMENT PLAN SHEET No.3.	
18	EXISTING UTILITY FACILITY TO BE RELOCATED AND/OR ADJUSTED. SEE STREET IMPROVEMENT PLAN SHEET No.3.	

SIGNING AND STRIPING NOTES

1	INSTALL 6" YELLOW TWO-WAY LEFT TURN LANE LINE PER CALTRANS STD. PLAN A20B, DETAIL 32 WITH RECESSED PAVEMENT MARKERS.	509 L.F.
2	INSTALL DOUBLE 6" THICK WIDE YELLOW CENTER LINE STRIPING PER CALTRANS STD. PLAN A20A, DETAIL 22 WITH RECESSED PAVEMENT MARKERS.	321 L.F.
3	PAINT LEGEND AS NOTED PER CALTRANS STANDARD PLAN A24D.	1 LOC.
4	INSTALL 6" WHITE EDGE LINE STRIPING PER CALTRANS STANDARD PLAN A20B, DETAIL 27B.	850 L.F.
5	INSTALL SIGN AS NOTED PER CA M.U.T.C.D. 2014 FIGURE 2A-2(CA).	5 EA.
6	PAINT 12" WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E.	1 LOC.
7	EXISTING ROAD SIGN TO REMAIN (PROTECT IN PLACE).	3 EA.
8	EXISTING PAVEMENT LEGEND TO REMAIN (PROTECT IN PLACE).	1 LOC.
9	INSTALL 6" WHITE SKIP STRIPING PER CALTRANS STD. PLAN A20A, DETAIL 9 WITH RECESSED PAVEMENT MARKERS.	680 L.F.

CONSTRUCTION NOTES

QUANTITIES

1	CONSTRUCT 5.5" A.C. OVER 9" C.A.B.(CLASS II) PER GENERAL NOTE 8.	18,645 S.F.
2	COLD MILL 0.17" MIN. THICK OF EXISTING AC PAVEMENT PER S.B. COUNTY GENERAL PERMIT CONDITIONS AND TRENCH SPECIFICATIONS. OVERLAY WITH VARIABLE THICK AC PAVEMENT 3' IN WIDTH OR AS DIRECTED BY THE DPW ROAD INSPECTOR.	2,220 S.F.
3	CONSTRUCT 8" HEIGHT CURB AND GUTTER PER S.B.C. STD. PLAN No.115.	456 L.F.
4	CONSTRUCT 4" THICK PCC SIDEWALK PER S.B.C. STD. PLAN No.109 TYPE "D".	5,778 S.F.
5	CONSTRUCT COMMERCIAL DRIVE APPROACH PER MODIFIED S.B.C. STD. PLAN No.129B. WIDTH PER PLAN.	1,950 S.F.
6	ADJUST EXISTING WATER GATE VALVE CAN TO FINISHED GRADE.	8 EA.
7	PROTECT EXISTING FIRE HYDRANT/BLOW OFF ASSEMBLY IN-PLACE. ADJUST TO FINISHED GRADE AS NECESSARY PER P.P.H.C.S.D. REQUIREMENTS.	1 LOC.
8	PROTECT EXISTING WATER METER BOX IN-PLACE. ADJUST TO FINISHED GRADE AS NECESSARY PER P.P.H.C.S.D. REQUIREMENTS.	1 LOC.
9	REMOVE AND SALVAGE EXISTING FIRE HYDRANT ASSEMBLY AND RELOCATE PER SHEEP CREEK WATER COMPANY REQUIREMENTS.	2 EA.
10	REMOVE AND SALVAGE EXISTING WATER METER/BOX AND RELOCATE PER SHEEP CREEK WATER COMPANY REQUIREMENTS.	1 EA.
11	EXISTING UTILITY FACILITY TO BE RELOCATED/ADJUSTED TO FINISHED GRADE PER UTILITY COMPANY REQUIREMENTS.	4 EA.
12	EXISTING SHEEP CREEK WATER COMPANY SERVICE LINE TO BE ABANDONED AT THE WATER MAIN LINE BY OTHERS.	N/A

TITLE SHEET

APN 3066-261-10
PHELAN, CA

SIP-2021-00031

ROAD NO.

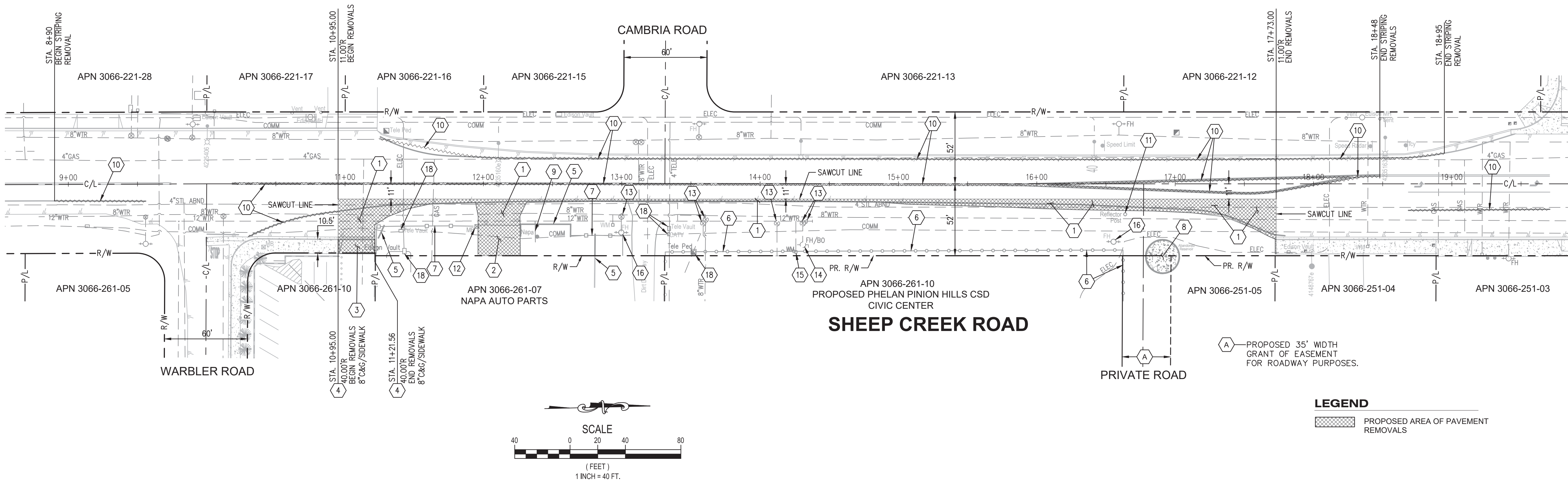
748950

FILE NO.

SHEET 1 OF 6

NOTE TO CONTRACTOR

CONTRACTOR TO FIELD VERIFY EXACT DEPTH AND LOCATION OF ANY EXISTING UTILITIES AND NOTIFY THE CIVIL ENGINEER OF ANY POTENTIAL CONFLICTS OR OMISSIONS ON THE PLANS PRIOR TO THE START OF ANY CONSTRUCTION.

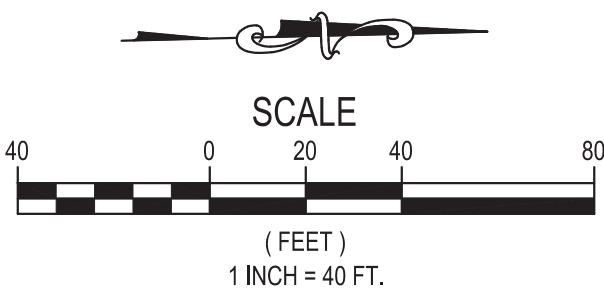


DEMOLITION NOTES

- 1—REMOVE EXISTING A.C. PAVEMENT.
- 2—REMOVE EXISTING P.C.C. PAVEMENT.
- 3—REMOVE EXISTING P.C.C. DRIVEWAY APPROACH.
- 4—REMOVE EXISTING 8" CURB AND GUTTER.
- 5—REMOVE EXISTING PLANTER CURB.
- 6—REMOVE EXISTING CHAINLINK FENCING.
- 7—REMOVE EXISTING WOOD FENCING.
- 8—DEMOLISH AND REMOVE ABANDONED WATER RESERVOIR PER P.P.H.C.S.D. REQUIREMENTS.
- 9—REMOVE EXISTING WOOD SIGN.
- 10—REMOVE EXISTING STRIPING.
- 11—REMOVE REFLECTOR POST.
- 12—REMOVE MAILBOX AND RELOCATE PER U.S.P.S. REQUIREMENTS.
- 13—PROTECT EXISTING WATER GATE VALVE CAN IN PLACE. VALVE CAN TO BE ADJUSTED TO FINISHED GRADE. SEE STREET IMPROVEMENT PLAN SHEET No.3.
- 14—PROTECT EXISTING FIRE HYDRANT/BLOW OFF ASSEMBLY IN-PLACE.
- 15—PROTECT EXISTING WATER METER BOX IN-PLACE.
- 16—REMOVE AND SALVAGE EXISTING FIRE HYDRANT ASSEMBLY AND RELOCATE PER SHEEP CREEK WATER COMPANY STANDARDS. SEE STREET IMPROVEMENT PLAN SHEET No.3.
- 17—REMOVE AND SALVAGE EXISTING WATER METER/BOX AND RELOCATE PER SHEEP CREEK WATER COMPANY STANDARDS. SEE STREET IMPROVEMENT PLAN SHEET No.3.
- 18—EXISTING UTILITY FACILITY TO BE RELOCATED AND/OR ADJUSTED. SEE STREET IMPROVEMENT PLAN SHEET No.3.

LEGEND

PROPOSED AREA OF PAVEMENT REMOVALS



File Date: 12/20/2022 1:58 PM
Save Date: 12/20/2022 1:46 PM
By: Shane Schubert
By: Sincé Plé
PPHCD000000020400CAD/SHEETS/SEC02_PPHCD00000002 - Civic Center Plaza.dwg

Underground Service Alert

Call: TOLL FREE
1-800-227-2600

TWO WORKING DAYS 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= 3616.50

PREPARED BY:

DAVID EVANS AND ASSOCIATES INC.

18484 Outer Highway 18 North, Suite 225
Apple Valley California 92307
Phone: 760.524.9100
RKilpatrick@deainc.com

PREPARED UNDER THE SUPERVISION OF:

ROBERT A. KILPATRICK R.C.E. 42386

1-27-2023
DATE:

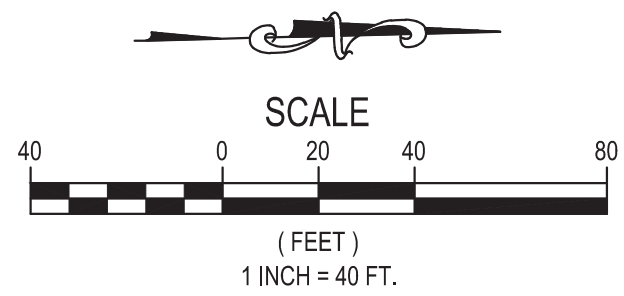


MARK	REVISIONS	APPR	DATE
	Bid Set - PPHCSD Civic Center Phase 1 - Street Improvement Plans		

SAN BERNARDINO COUNTY	
DPW	LUS
OSVALDO ROQUE SUPERVISING ENGINEER, TRAFFIC DIVISION	DATE
JEREMY JOHNSON ENGINEERING MANAGER, TRAFFIC DIVISION	DATE
RECOMMENDED BY:	APPROVED BY:
	Michelle Martin SUPERVISING ENGINEER, LAND DEVELOPMENT
	3/09/2023 DATE

DEMOLITION PLAN	ROAD NO. 748950
SHEEP CREEK ROAD APN 3066-261-10 STA. 8+90 TO 18+94	FILE NO.
	SHEET 2 OF 6

STREET IMPROVEMENT PLAN	ROAD NO. 748950
SHEEP CREEK ROAD APN 3066-261-10 STA. 10+95 TO 17+73	FILE NO.
	SHEET 3 OF 6



R1-1



R26 (CA

- 1 INSTALL 6" YELLOW TWO-WAY LEFT TURN LANE LINE PER CALTRANS STD. PLAN A20B, DETAIL 32 WITH RECESSED PAVEMENT MARKERS.
- 2 INSTALL DOUBLE 6" THICK WIDE YELLOW CENTER LINE STRIPING PER CALTRANS STD. PLAN A20A, DETAIL 22 WITH RECESSED PAVEMENT MARKERS.
- 3 PAINT LEGEND AS NOTED PER CALTRANS STANDARD PLAN A24D.
- 4 INSTALL 6" WHITE EDGE LINE STRIPING PER CALTRANS STANDARD PLAN A20B, DETAIL 27B.
- 5 INSTALL SIGN AS NOTED PER CA M.U.T.C.D. 2014 FIGURE 2A-2(CA)
- 6 PAINT 12" WHITE LIMIT LINE PER CALTRANS STANDARD PLAN A24E.
- 7 EXISTING ROAD SIGN TO REMAIN (PROTECT IN PLACE).
- 8 REMOVE EXISTING PAVEMENT MARKING "40" AND REPAINT MARKING ALONG THE CENTER OF THE NEW LANE PER CALTRANS STANDARDS.
- 9 INSTALL 6" WHITE SKIP STRIPING PER CALTRANS STD. PLAN A20A, DETAIL 9 WITH RECESSED PAVEMENT MARKERS.

1. SEE SHEET 2 DEMOLITION PLAN FOR EXISTING STRIPING REMOVALS.
2. SEE SHEET 1 FOR SAN BERNARDINO COUNTY TRAFFIC CONTROL GENERAL NOTES.



Underground Service Alert

 **Call: TOLL FREE**
1-800-227-2600

TWO WORKING DAYS 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= 3616.50




**DAVID EVANS
AND ASSOCIATES INC.**


ROBERT A. KILPATRICK

R.C.E. 42386

1-27-2023
DATE:

SAN BERNARDINO COUNTY


OSVALDO ROQUE
SUPERVISING ENGINEER, TRAFFIC DIVISION

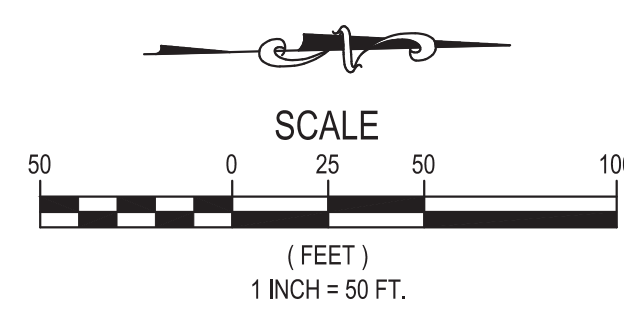
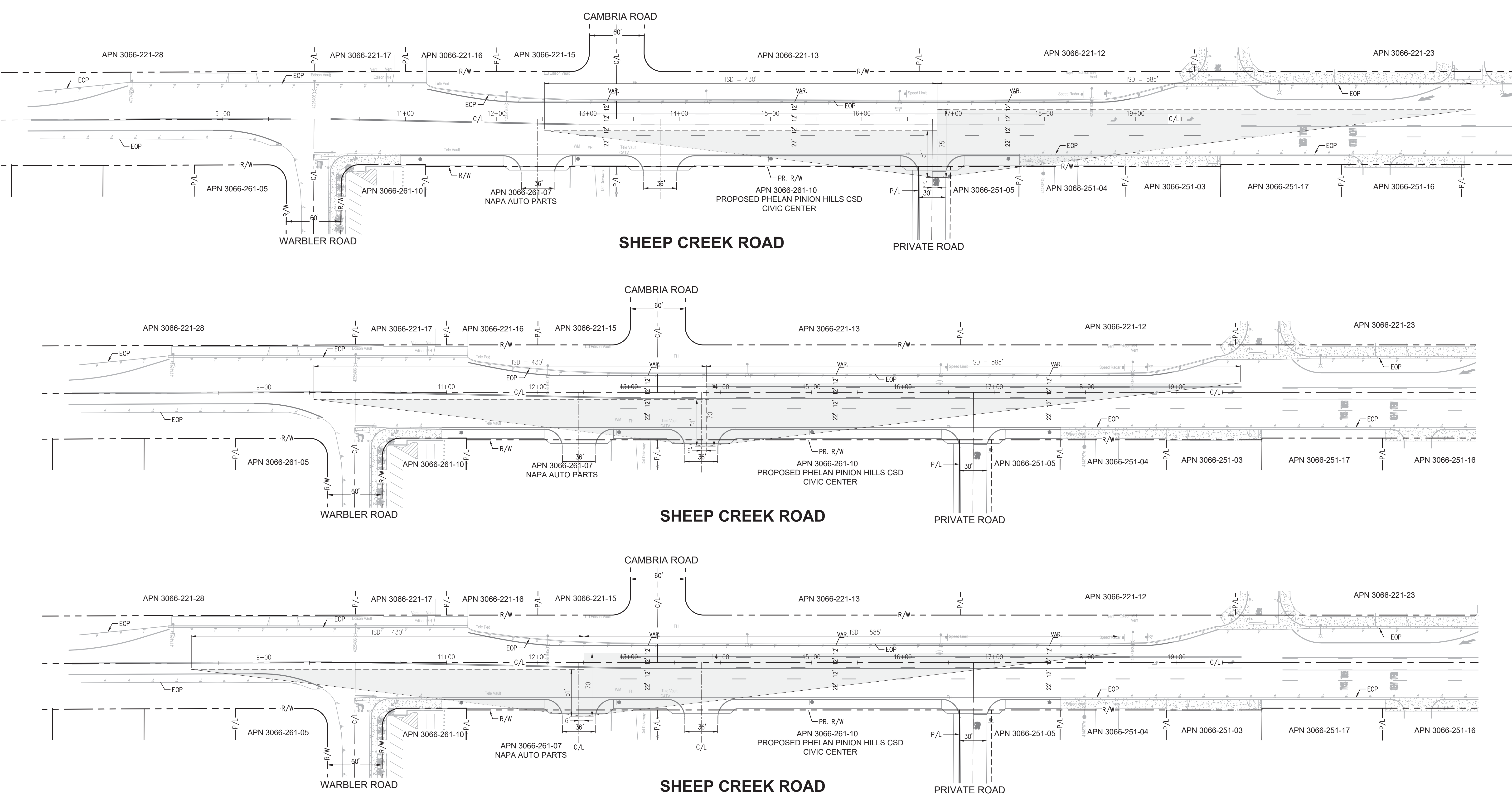

JEREMY JOHNSON
ENGINEERING MANAGER, TRAFFIC DIVISION

8	RECOMMENDED BY:	
3	APPROVED BY:	
	MICHELE MARTIN SUPERVISING ENGINEER, LAND DEVELOPMENT	

SHEEP CREEK ROAD
APN 3066-261-10
STA. 8+90 TO 18+95
PHELAN AREA

SHEET 4 OF 6

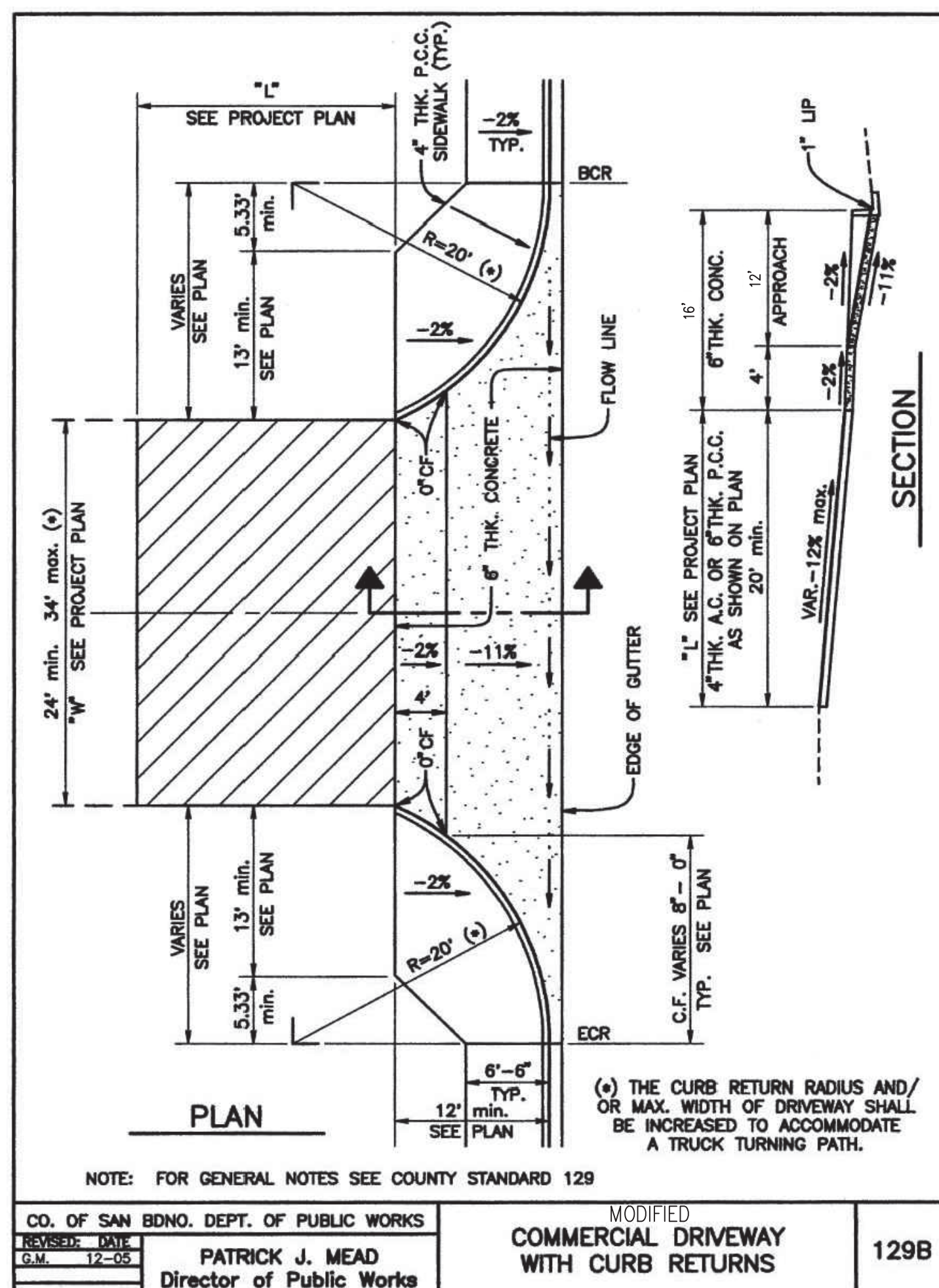
12/20/2022 2:00 PM
By: Shane Schubert
Save Date: 12/20/2022 2:00 PM
File Path: P:\PPHCD\0000002\0400\AD\SHETS\SEC\06_PPHCD0000002 - Civic Center Plaza.dwg

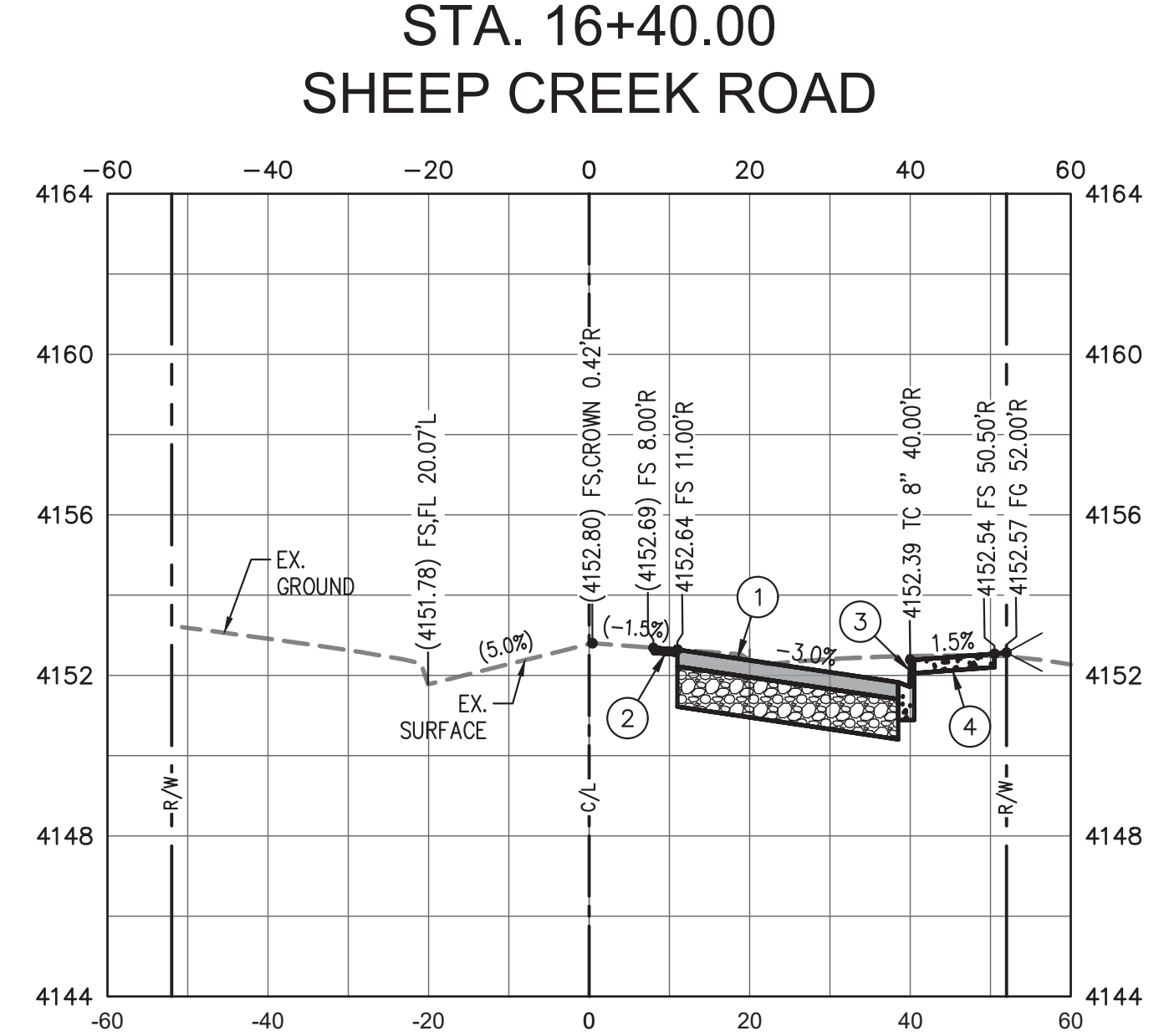
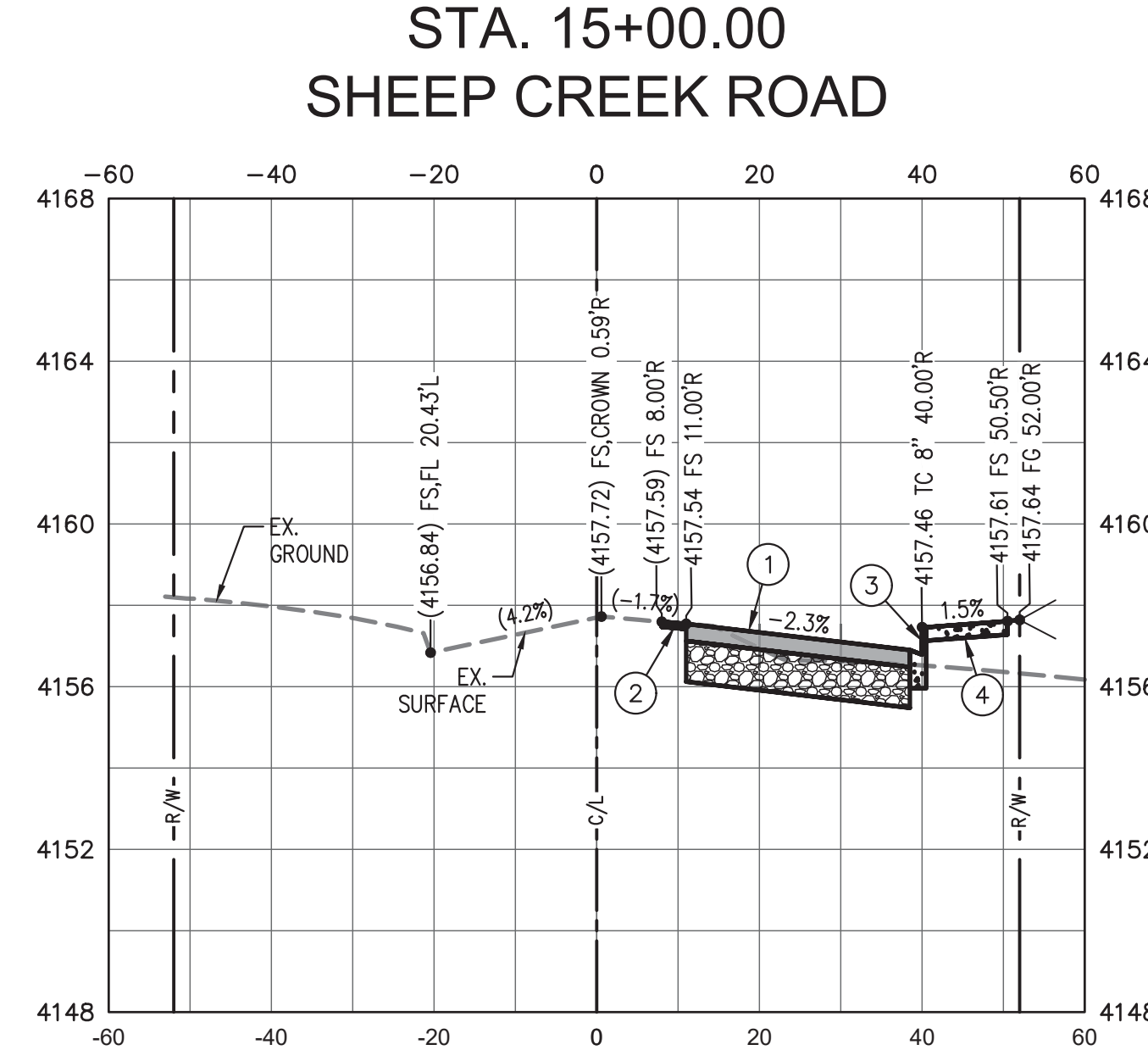
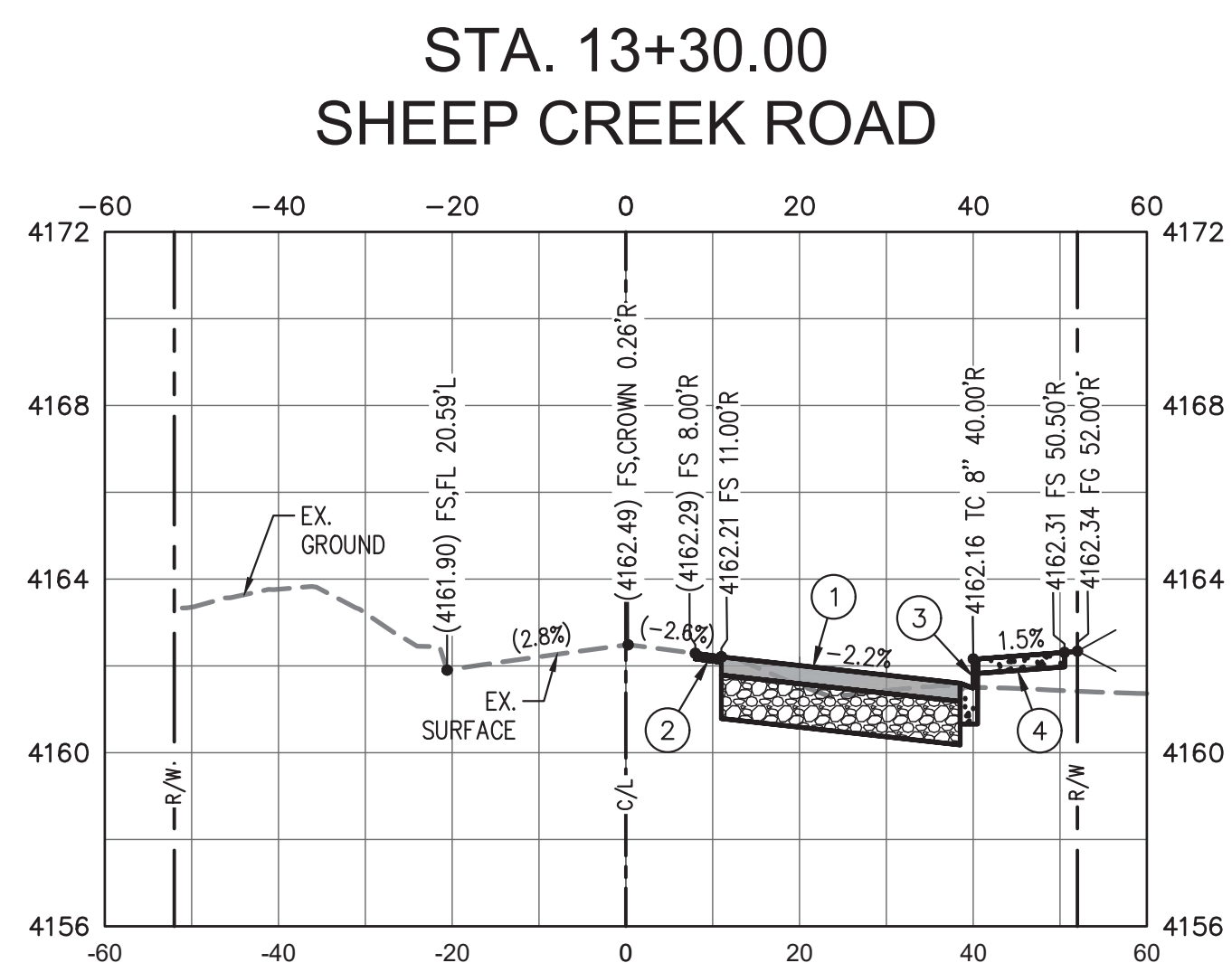
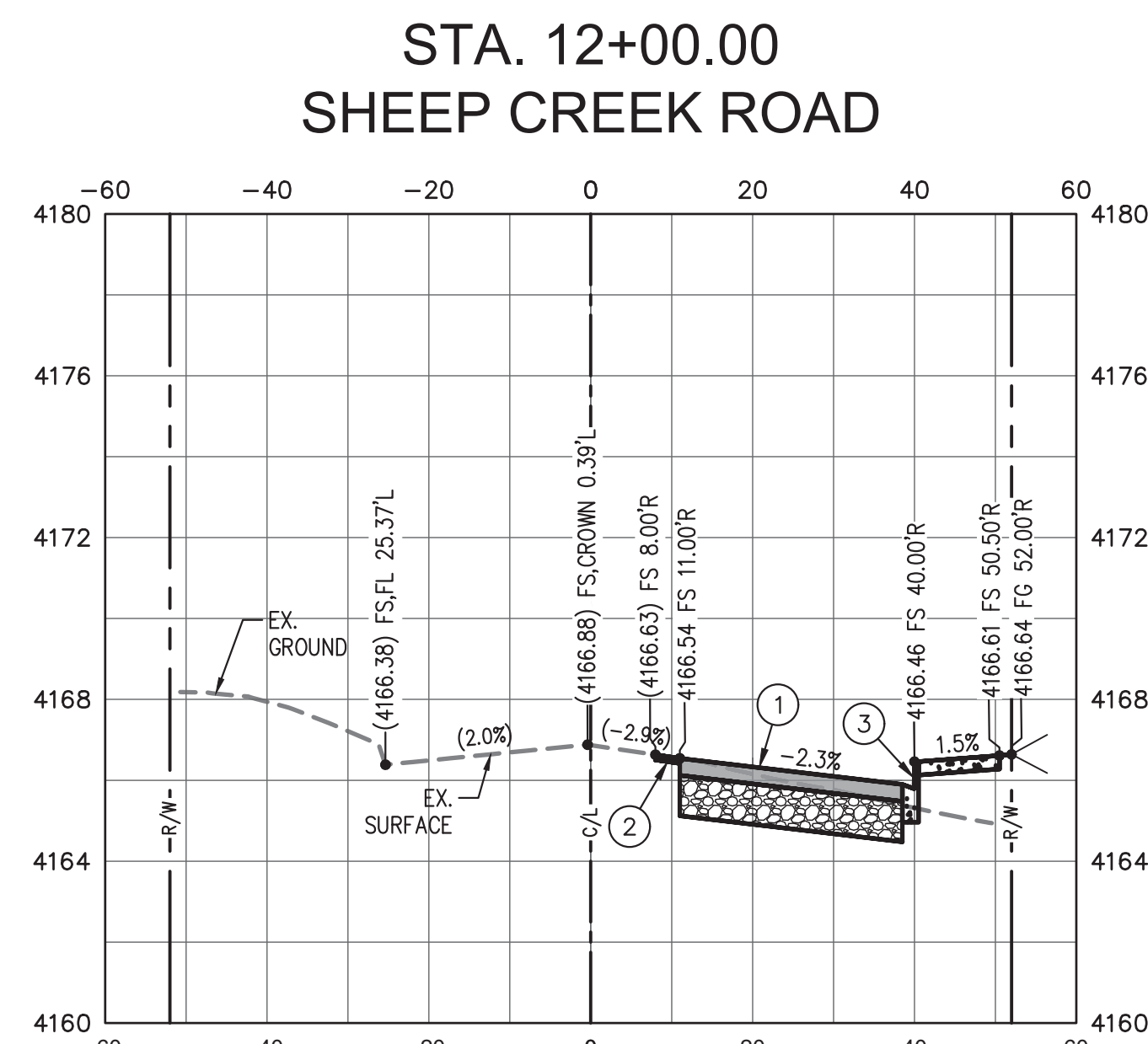
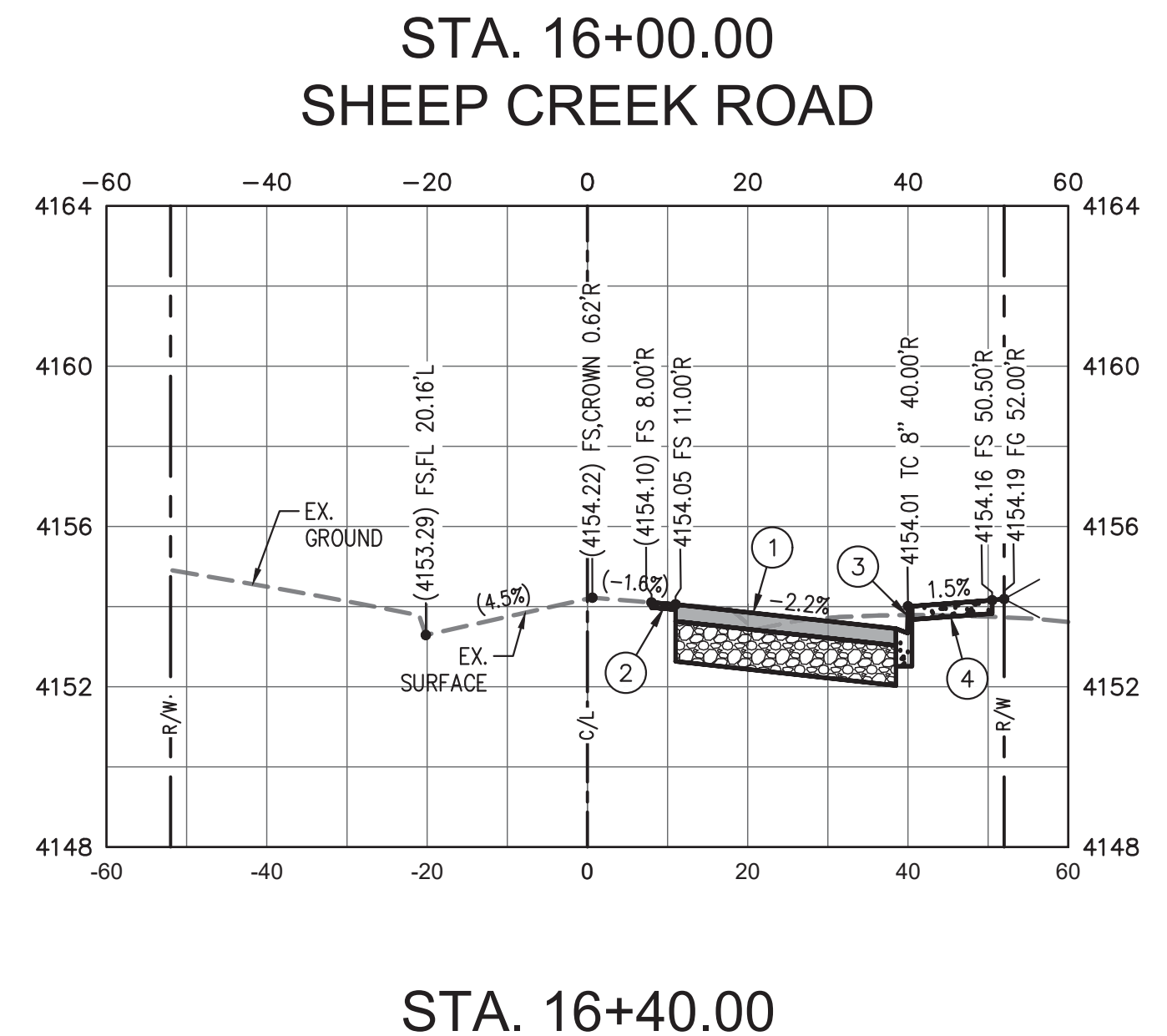
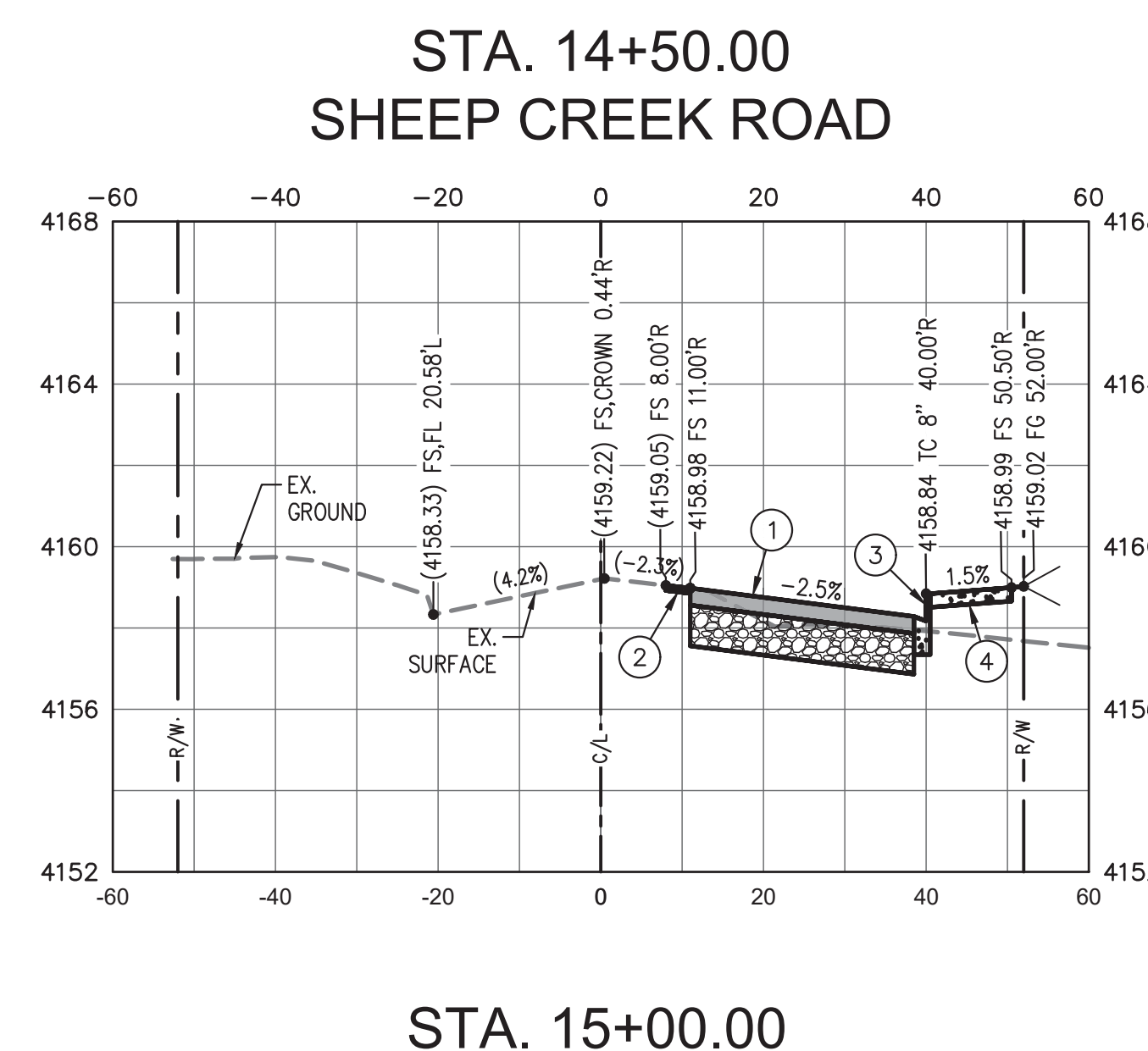
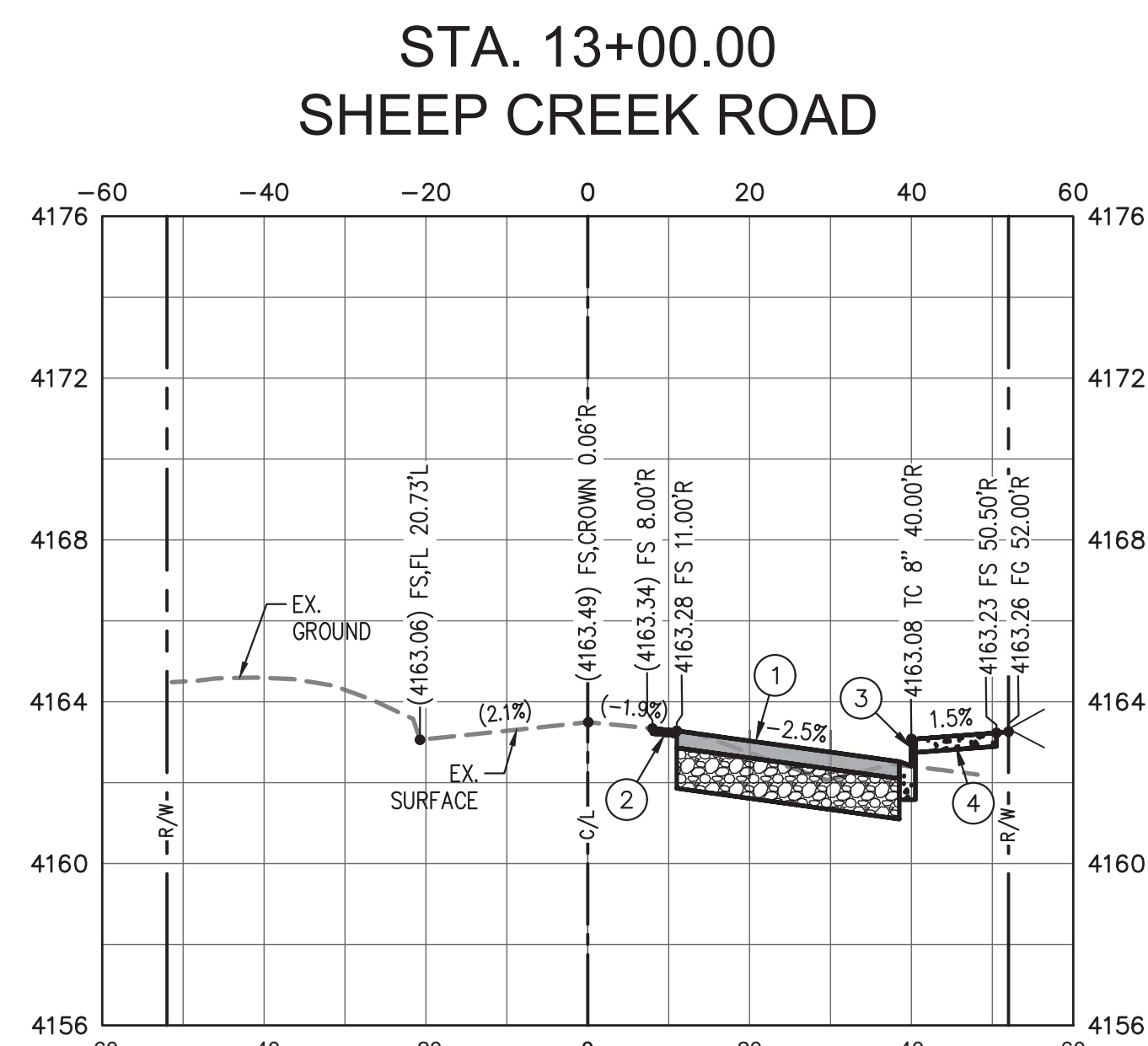
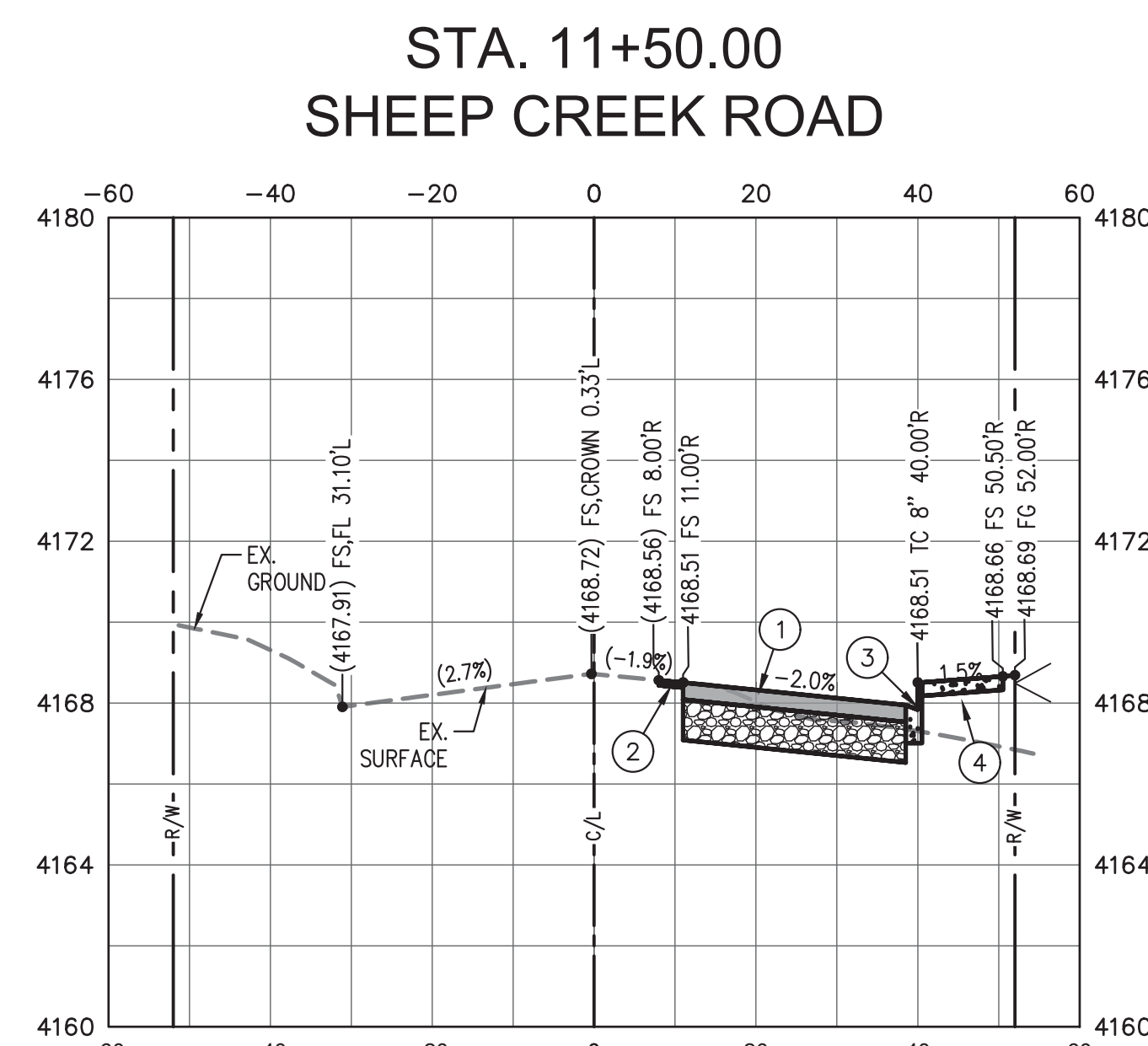
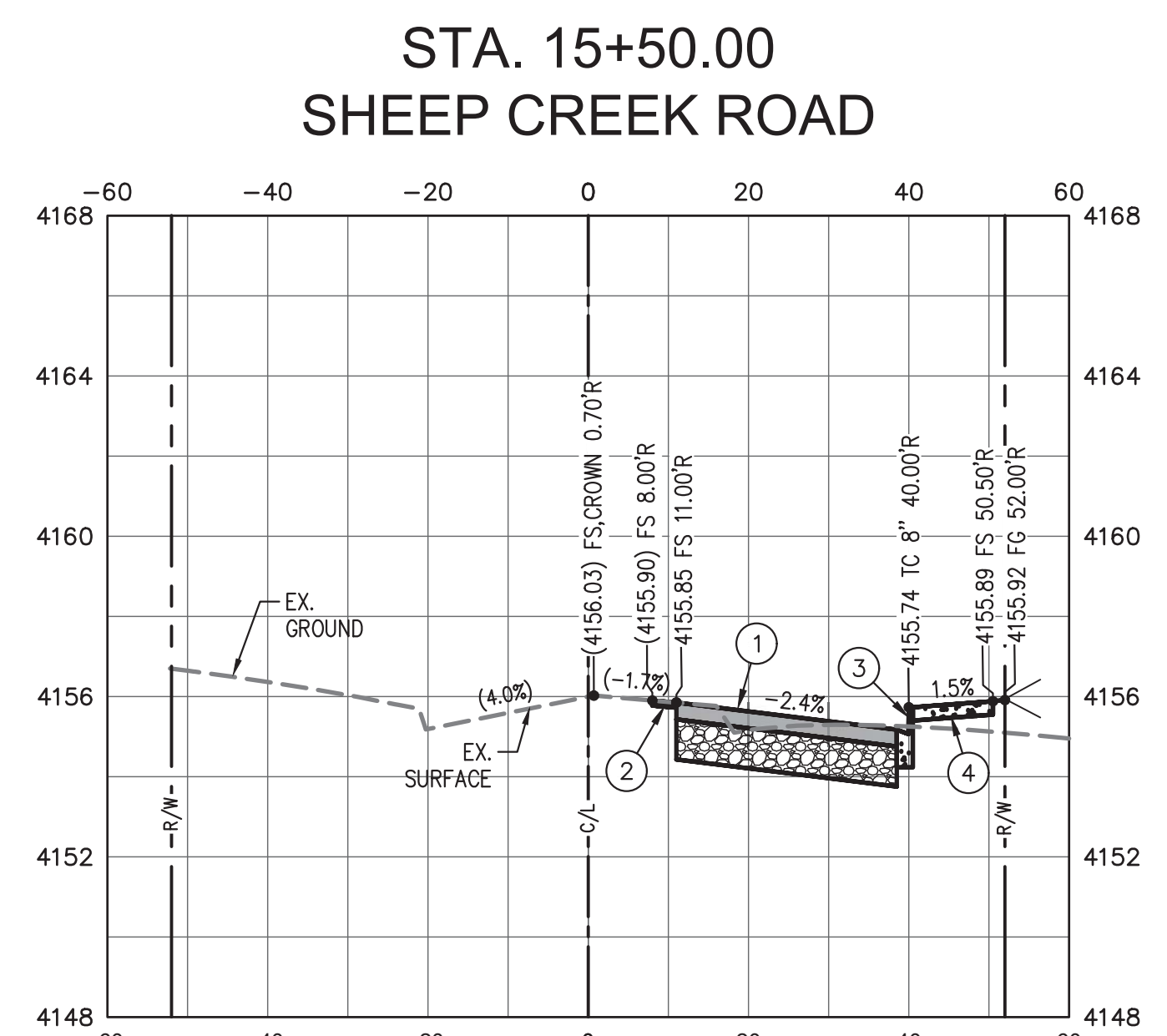
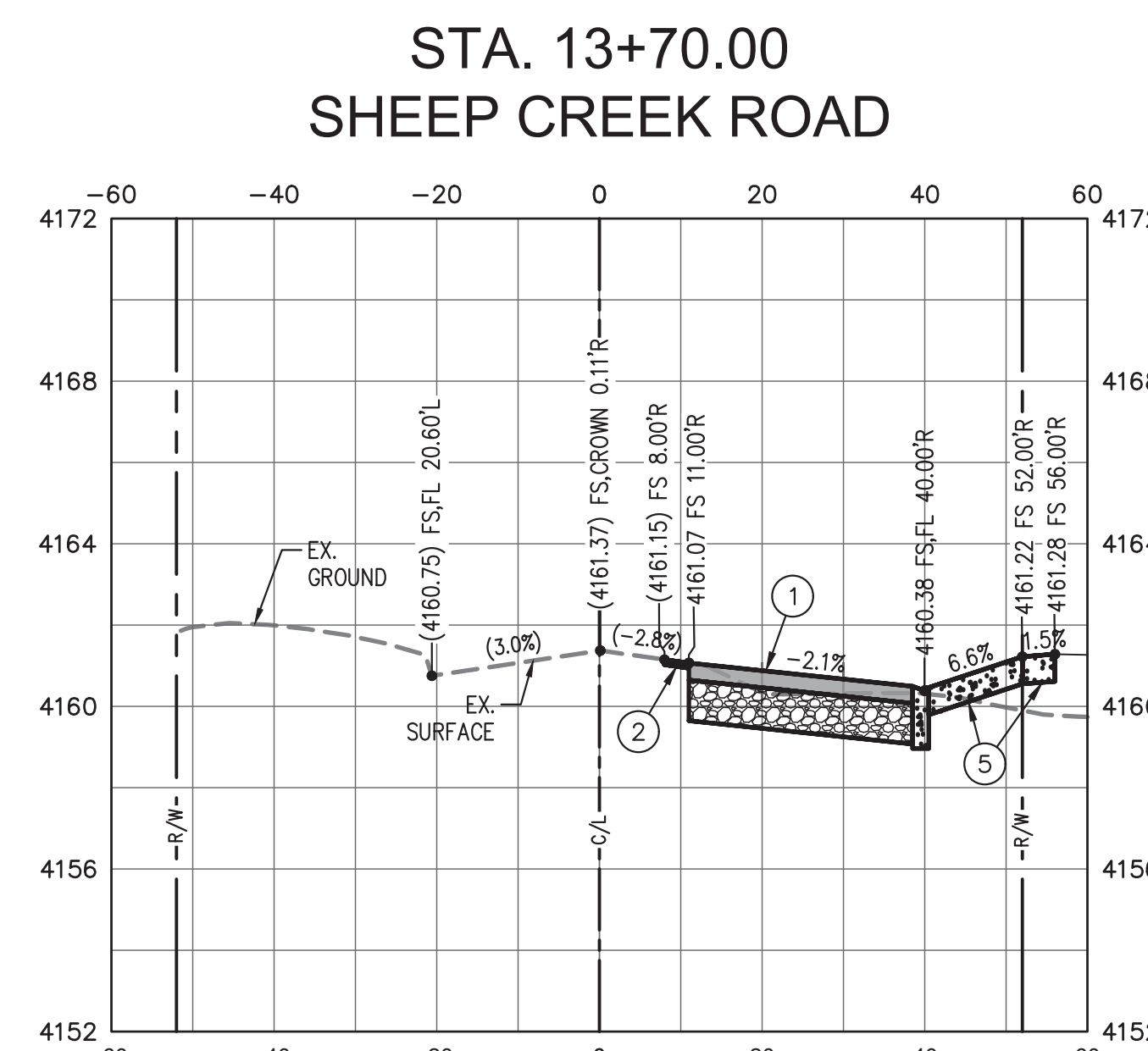
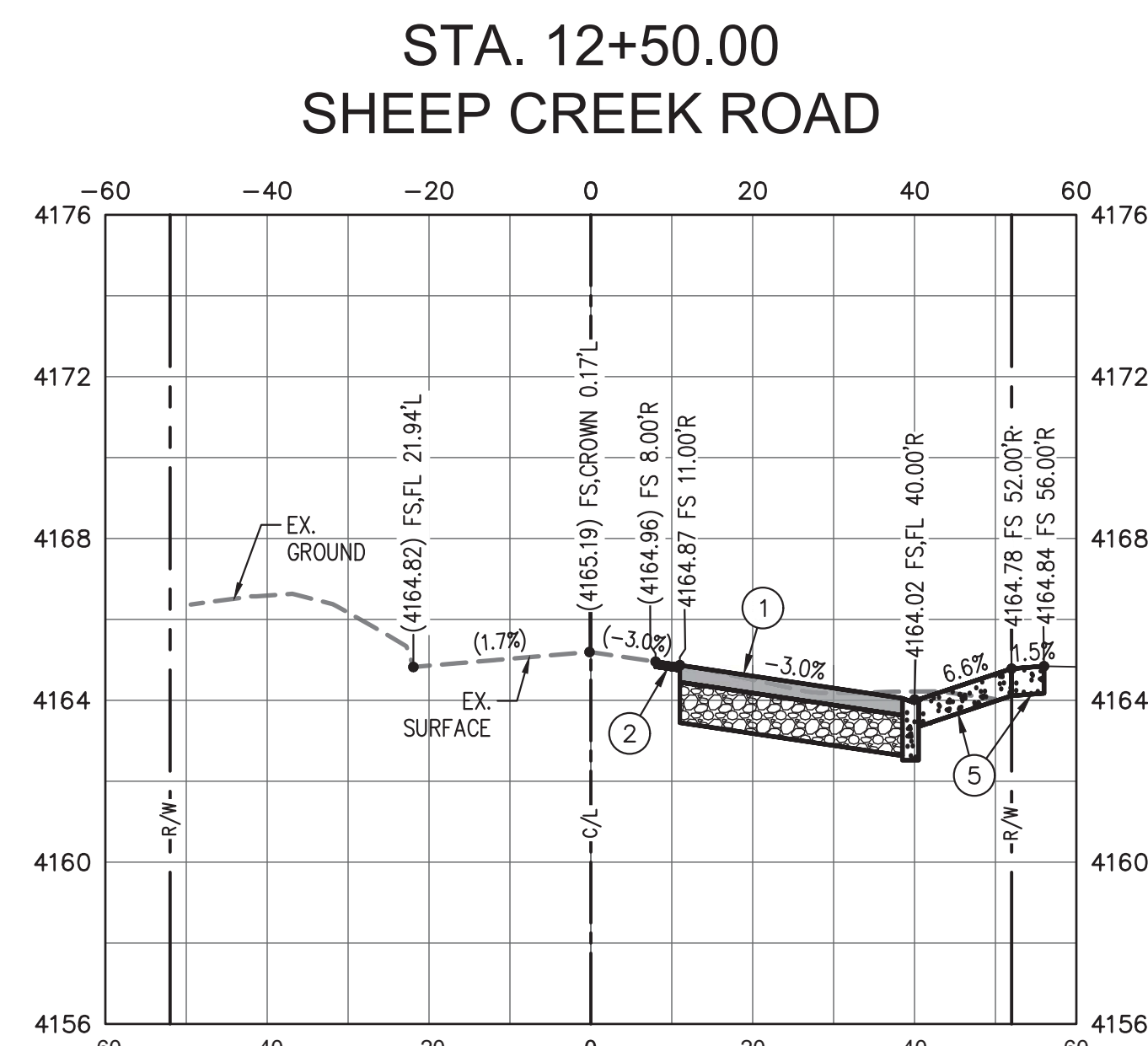
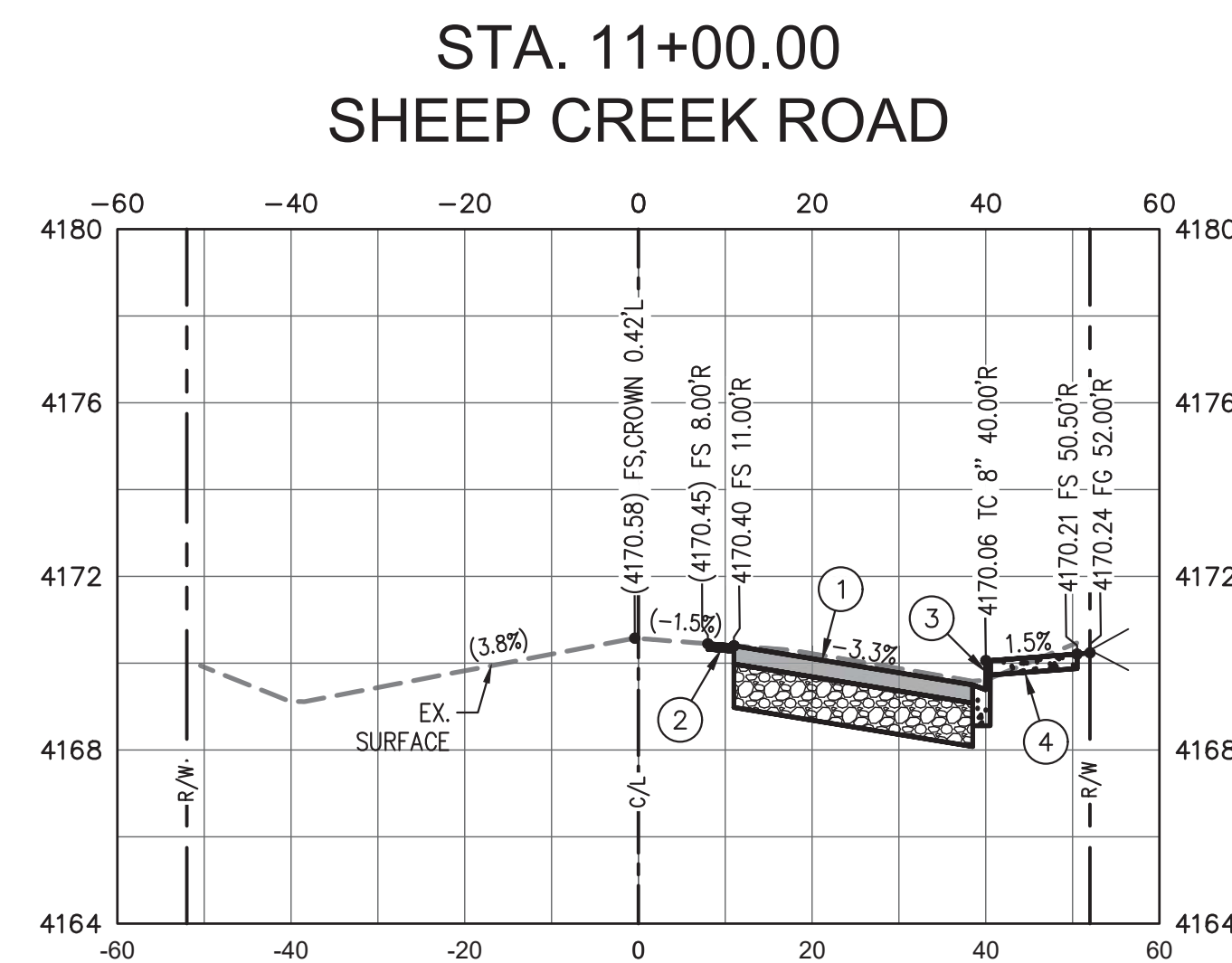


NOTE
ALL SIGHT RESTRICTIONS TO BE CLEARED WITHIN SIGHT TRIANGLE. ANY OBJECTS (I.E. LANDSCAPING, WALLS, FENCING, STRUCTURES) WITHIN THE SIGHT TRIANGLE SHOULD NOT BE OVER 30 INCHES IN HEIGHT. TREES TO BE TRIMMED TO EIGHT FEET ABOVE THE ADJOINING CURB WITH THE SIGHT TRIANGLE.

SIGHT DISTANCE CALCULATIONS		
$ISD = 1.47 V_{major} t_g [1]$ $V_{major} = 45 \text{ mph}$		
Left turn from stop ^[2]		Right turn from stop ^[2]
$t_{g_combination \text{ truck}} = (11.5 + 7 + 1.1)^{[3]}$		$t_{g_combination \text{ truck}} = (10.5)^3$
$t_{g_passenger \text{ car}} = (7.5 + 5 + 8)^3$		$t_{g_passenger \text{ car}} = (6.5)^3$
$ISD_{combination \text{ truck}} = 1.47 (45) (13.3)$		$ISD_{combination \text{ truck}} = 1.47 (45) (10.5)$
$ISD_{combination \text{ truck}} = 879.80 \approx 880 \text{ ft}$		$ISD_{combination \text{ truck}} = 694.58 \approx 695 \text{ ft}$
$ISD_{passenger \text{ car}} = 1.47 (45) (8.8)$		$ISD_{passenger \text{ car}} = 1.47 (45) (6.5)$
$ISD_{passenger \text{ car}} = 585.12 \approx 585 \text{ ft}$		$ISD_{passenger \text{ car}} = 429.98 \approx 430 \text{ ft}$

Underground Service Alert  Call: TOLL FREE 1-800-227-2600 TWO WORKING DAYS 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= 3616.50	PREPARED BY:  DAVID EVANS AND ASSOCIATES INC. 18484 Outer Highway 18 North, Suite 225 Apple Valley California 92307 Phone: 760.524.9100 RKilpatrick@deainc.com PREPARED UNDER THE SUPERVISION OF: ROBERT A. KILPATRICK R.C.E. 42386 DATE: 1-27-2023	 REVISIONS MARK REVISIONS APPR DATE 1 Bid Set - PPHCSD Civic Center Phase 1 - Street Improvement Plans	SAN BERNARDINO COUNTY DPW LUS OSVALDO ROQUE SUPERVISING ENGINEER, TRAFFIC DIVISION JEREMY JOHNSON ENGINEERING MANAGER, TRAFFIC DIVISION 02/27/2023 03/01/2023	SIGHT DISTANCE TRIANGLES SHEEP CREEK ROAD APN 3066-261-10 STA. 8+90 TO 18+94 ROAD NO. 748950 FILE NO. SHEET 5 OF 6
---	---	--	---	--	--

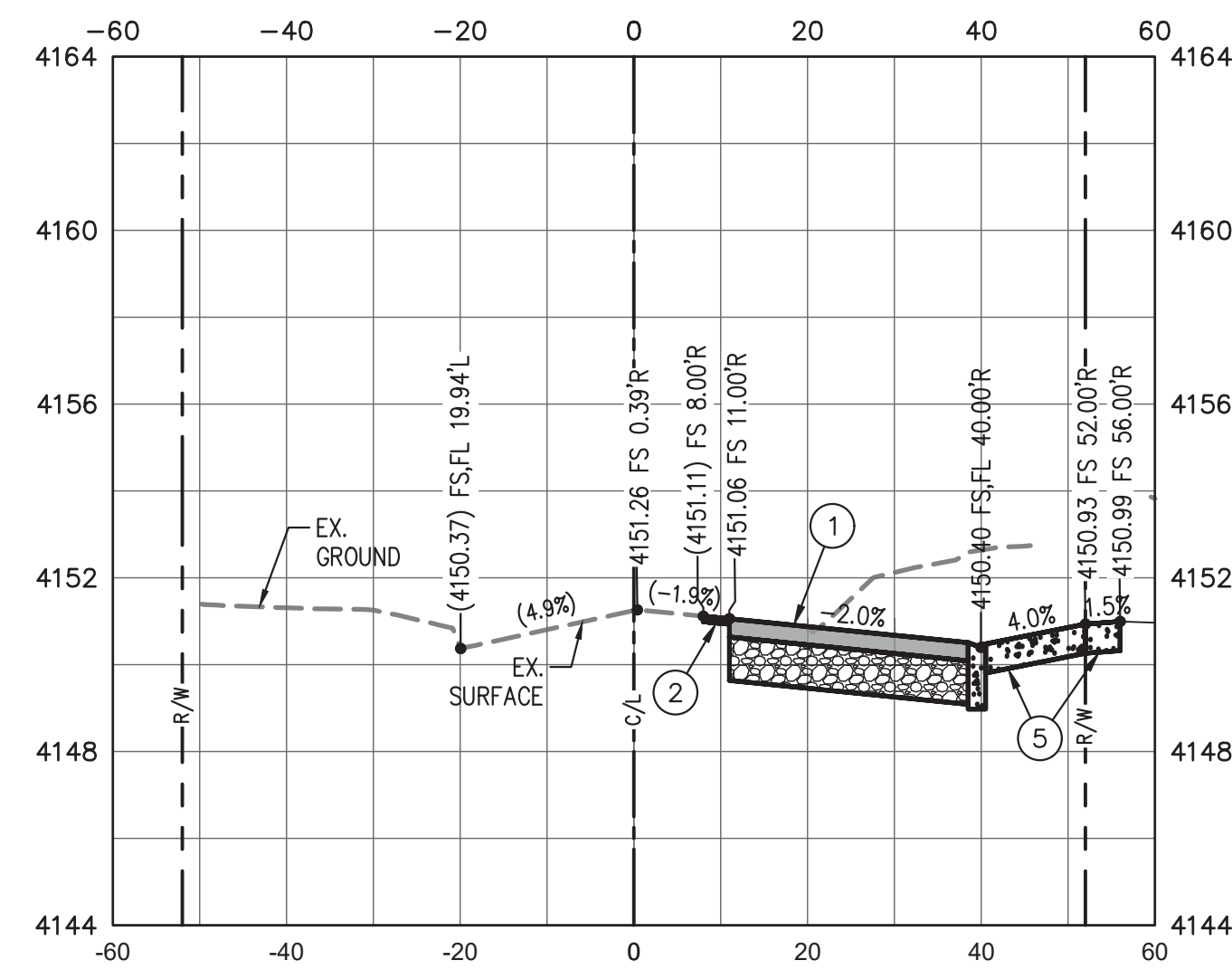




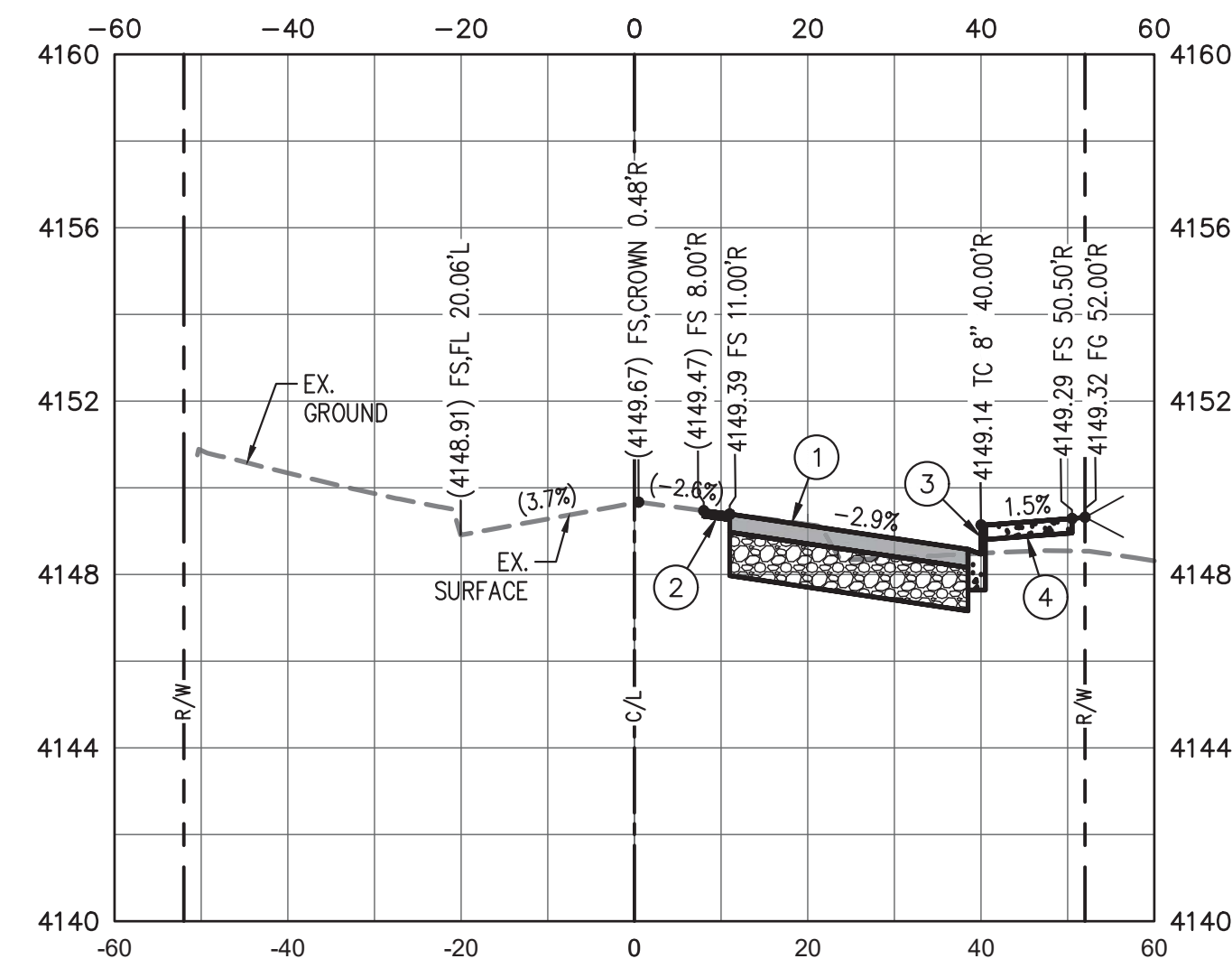
SCALE: 1"=20' HORIZ.
1"=4' VERT.

**SHEEP CREEK ROAD CROSS SECTIONS SHEET 1 OF 2
FOR REFERENCE ONLY**

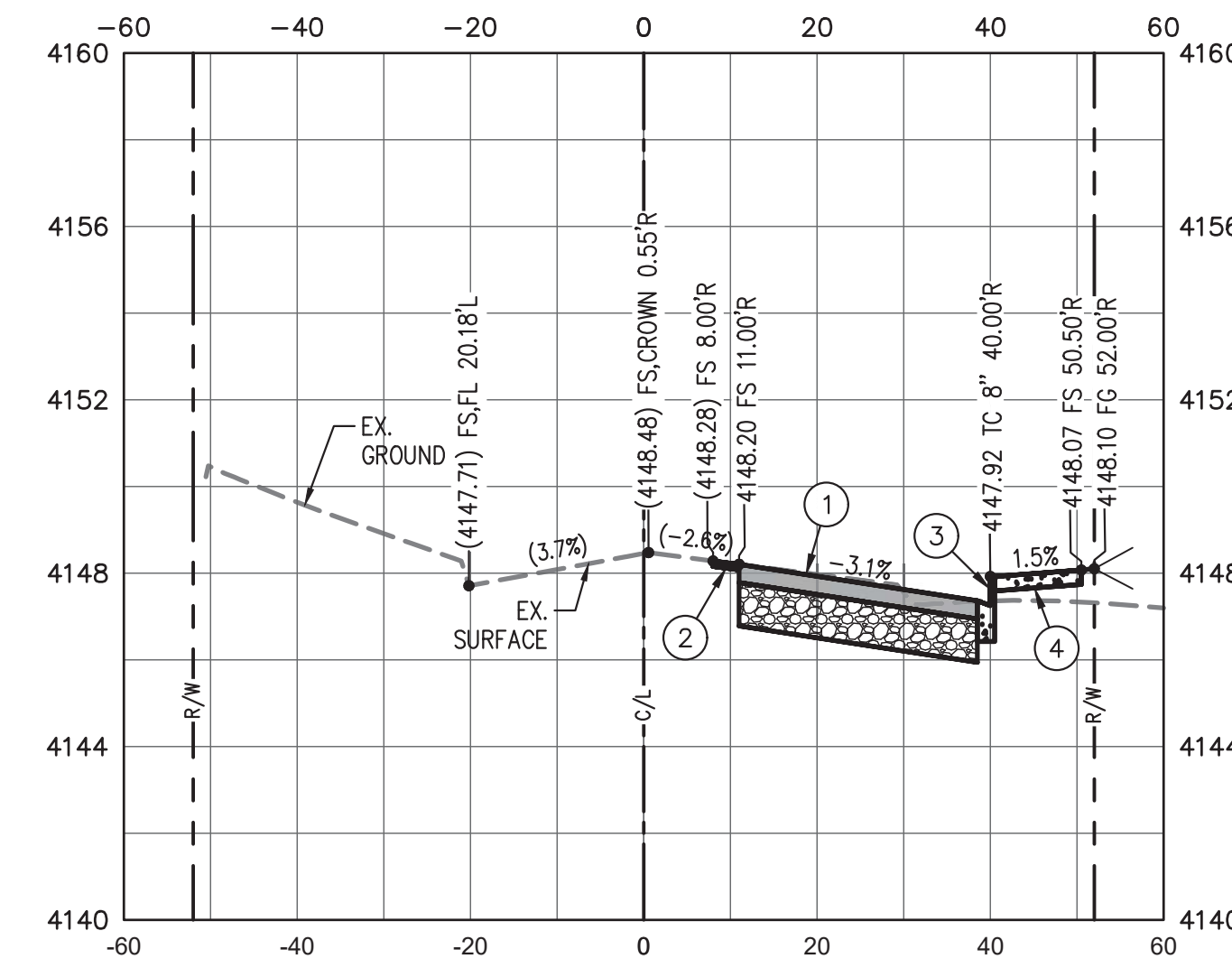
STA. 16+80.00
SHEEP CREEK ROAD



STA. 17+20.00
SHEEP CREEK ROAD



STA. 17+50.00
SHEEP CREEK ROAD



SCALE: 1"=20' HORIZ.
1"=4' VERT.

SHEEP CREEK ROAD CROSS SECTIONS SHEET 2 OF 2
FOR REFERENCE ONLY