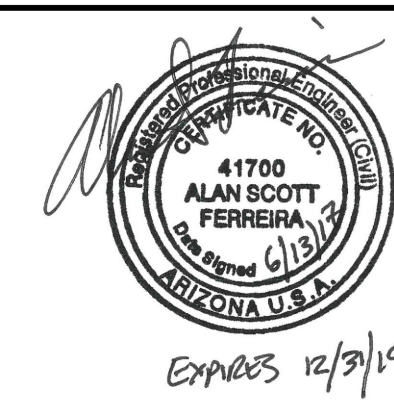


TOWN OF FLORENCE

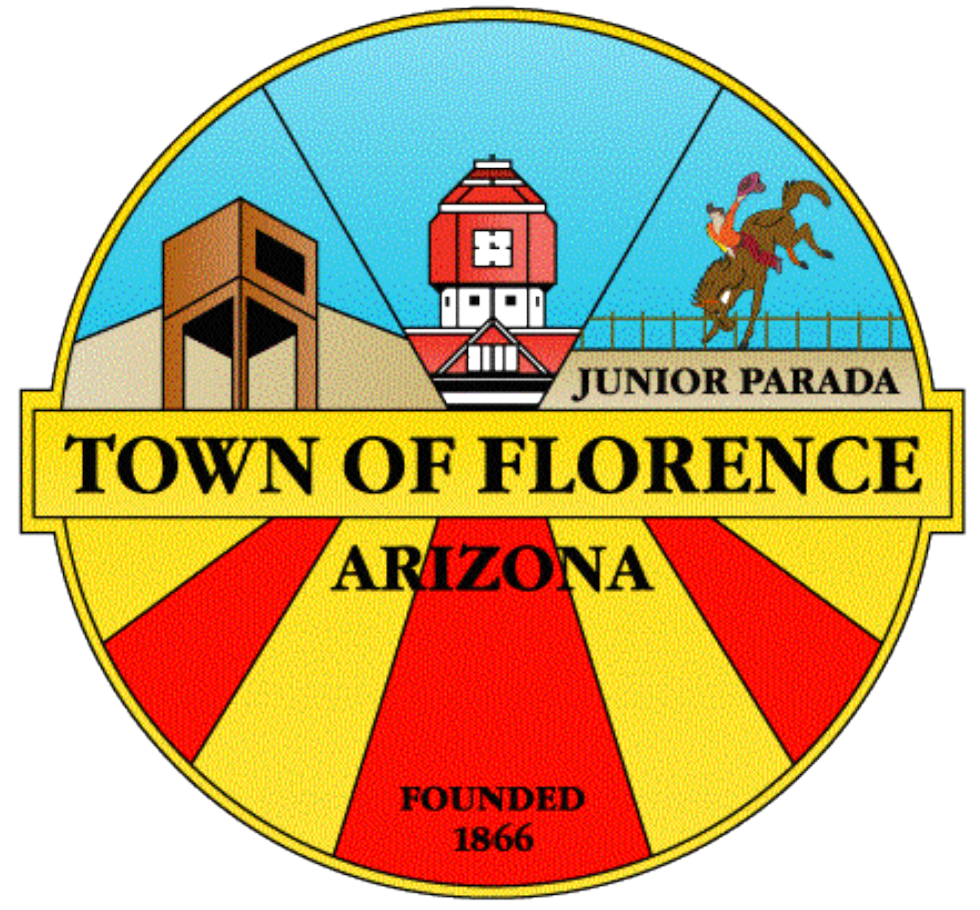
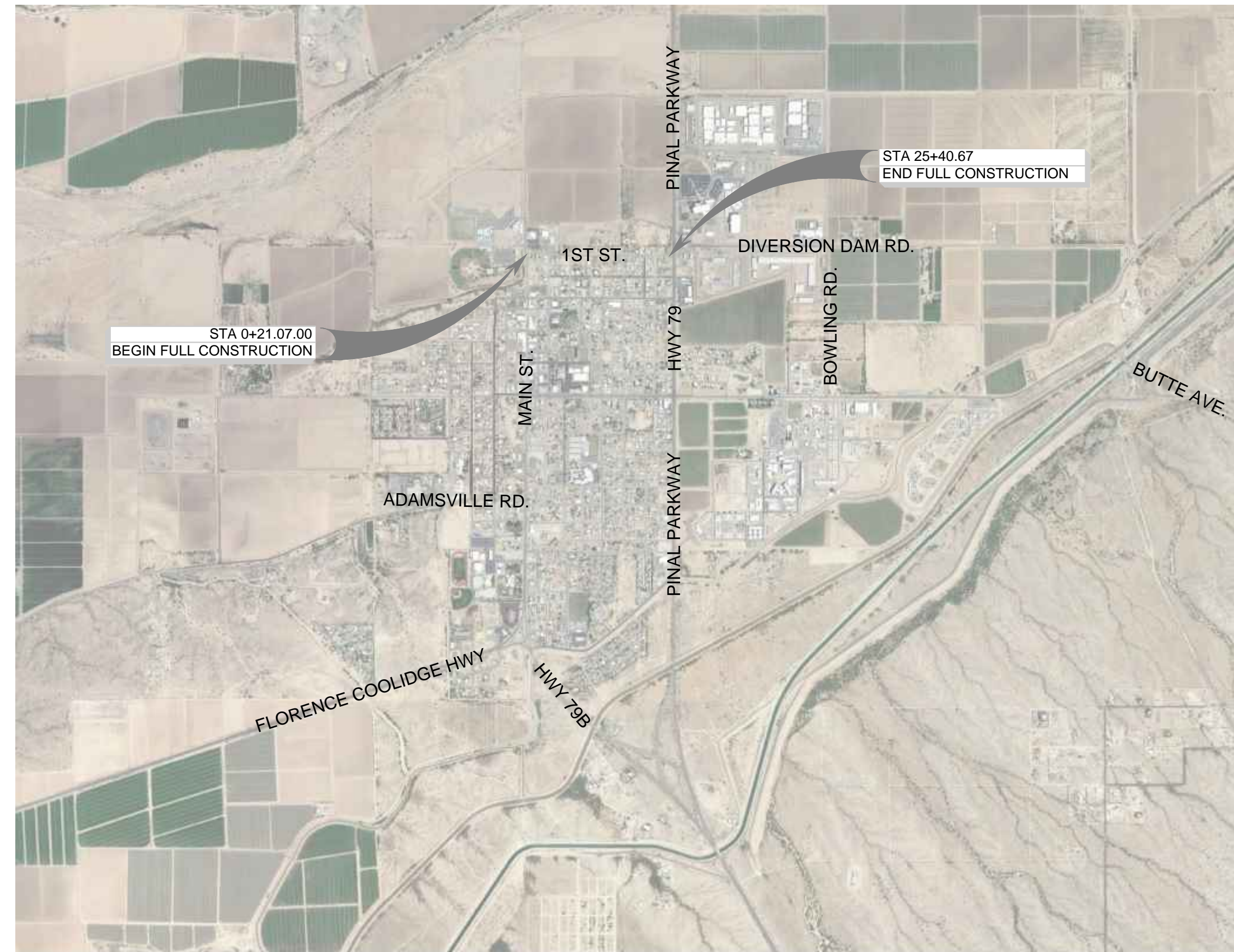
1st STREET PAVEMENT

MAIN ST TO HIGHWAY 79

PROJECT NUMBER T-60



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL	AS BUILT
9	ARIZ.				
CONSULTING ENGINEER					
DES:	DR:	CK:	DATE:		



INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
1	COVER SHEET
2 - 3	LEGEND AND NOTES
4	SURVEY CONTROL
5	TYPICAL SECTION
6 - 11	ROADWAY PLAN & PROFILE
12	DRIVEWAY PROFILES
13	CHURCH PARKING LOT DETAIL
14 - 17	CROSS SECTIONS
18 - 36	STANDARD DRAWINGS AND DETAILS
PROJECT TOTAL = 36	

STANDARD DRAWINGS AND DETAILS	REV. DATE	STD. DWG
ADOT FENCE TYPE 1 AND 2 GATES SHEET 3 OF 5	5/12	C-12.10
ADOT FENCE TYPE 1 AND 2 GATES SHEET 5 OF 5	5/12/17	C-12.10
ADOT FENCE CHAIN LINK TYPE 1	5/12	C-12.20
MAG DETAIL SURVEY MARKER	1/1/15	120
MAG DETAIL SAFETY RAIL	1/1/16	145
MAG DETAIL CONCRETE SCUPPER	1/1/07	206-1
MAG DETAIL CONCRETE SCUPPER	1/1/07	206-2
MAG DETAIL CONCRETE SCUPPER	1/1/07	206-3
MAG DETAIL CURB AND GUTTER TYPES A, B, C, AND D	1/1/07	220-1
MAG DETAIL CURB AND GUTTER TRANSITION TYPE A TO TYPE C INTEGRAL ROLL CURB, GUTTER AND SIDEWALK	1/1/14	221
MAG DETAIL SIDEWALKS	1/1/14	230
MAG DETAIL CURB RAMPS	1/1/12	235-3
MAG DETAIL VALLEY GUTTER	1/1/10	240
MAG DETAIL DRIVEWAY ENTRANCES WITH SIDEWALK ATTACHED TO CURB	1/1/13	250-2
MAG DETAIL ALLEY ENTRANCE (WITH VERTICAL CURB AND GUTTER)	1/1/13	260
MAG DETAIL NON TRAFFIC RATED WATER METER BOXES	1/1/17	320
MAG DETAIL VALVE BOX INSTALLATION AND GRADE ADJUSTMENT	1/1/17	391-1
MAG DETAIL VALVE BOX INSTALLATION AND GRADE ADJUSTMENT	1/2/17	391-2
MAG DETAIL MANHOLE FRAME ADJUSTMENT	1/1/15	422



PROJECT SCOPE

THE PROJECT IS TO RECONSTRUCT THE PAVEMENT ON 1ST STREET FROM MAIN STREET TO HIGHWAY 79, WITH ASSOCIATED PAVING, CONCRETE CURB AND GUTTER, SIDEWALK, AND DRAINAGE ELEMENTS.

- THE PROJECT INCLUDES BUT MAY NOT BE LIMITED TO:
- SELECTIVE DEMOLITION
 - EXCAVATING AND GRADING
 - PAVING
 - STRIPING
 - CONCRETE SIDEWALKS, CURBS AND GUTTERS

PLANS WERE DESIGNED AND/OR ASSEMBLED BY:
 WILSON & COMPANY, INC.
 ENGINEERS AND ARCHITECTS
 (602) 283-2718
 ALAN FERREIRA, P.E.
 ALAN.FERREIRA@WILSONCO.COM

TOWN OF FLORENCE, ARIZONA CONTACT:
 PUBLIC WORKS DIRECTOR/TOWN ENGINEER – CHRISTOPHER SALAS, P.E.
 520-868-7617
 CHRISTOPHER.SALAS@FLORENCEAZ.GOV
 PO BOX 2670
 425 E. RUGGLES STREET
 FLORENCE, AZ 85132

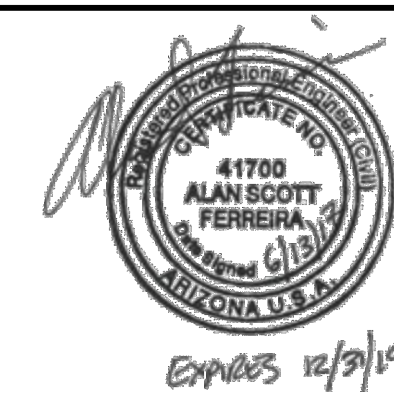


410 N. 44TH STREET, SUITE 460
 PHOENIX, AZ
 85008
 (602) 283-2701

APPROVED _____ DATE _____

DRAWING FILE NAME, REVISION DATE

1st STREET PAVEMENT
 FLORENCE – PINAL CO.
 MAIN STREET TO HIGHWAY 79



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

CONSULTING ENGINEER
 DES: DR: CK: DATE:

REVISION BY TOWN OF FLORENCE		NO.	DESCRIPTION	REV BY	CHK BY	DATE

LEGEND

- ▲ BENCHMARK
- EXISTING PROFILE
- PROPOSED PROFILE
- ==== CURB & GUTTER – M.A.G. DETAIL 220 TYPE "A" OR "C"
- ===== EXISTING CONCRETE PAVEMENT OR SIDEWALK
- NEW CONCRETE SCUPPER – M.A.G. DETAIL 206
- NEW CONCRETE SIDEWALK RAMP PER DETAIL ON PLANS
- NEW ASPHALT PAVEMENT
- NEW ABC (SECTION)
- RIPRAP (PLAN & SECTION)
- NEW CONCRETE (PLAN & SECTION)
- EXISTING DITCH
- 36" DEP W --- EXISTING WATER LINE W/SIZE & TYPE (GREATER THAN 12")
- 12" DEP W --- EXISTING WATER LINE W/SIZE & TYPE (12" AND SMALLER) ADJUST EXIST. WATER VALVE BOX – M.A.G. DETAIL 391
- 3/4" W --- WATER SERVICE W/SIZE AND WATER METER BOX
- EXISTING FIRE HYDRANT
- NEW OR RELOCATED FIRE HYDRANT BY CONTRACTOR
- 8" VCP S --- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (12" AND SMALLER)
- 30" VCP S --- EXISTING SANITARY SEWER LINE W/SIZE & TYPE (GREATER THAN 12")
- EXISTING MANHOLE
- NEW MANHOLE
- ==== CATCH BASIN, GUTTER INLET (LENGTH TO SCALE)
- CATCH BASIN, CURB INLET (LENGTH TO SCALE)
- ==== CATCH BASIN, CURB & GUTTER INLET (LENGTH TO SCALE)
- 30" SD (RCP) --- EXISTING STORM DRAIN LINE W/SIZE & TYPE (GREATER THAN 12")
- ==== NEW PIPE FOR STORM DRAIN
- 4" G --- EXISTING GAS LINE W/SIZE
- E --- EXISTING UNDERGROUND ELECTRIC CABLE OR SINGLE CONDUIT
- E-4D --- EXISTING UNDERGROUND ELECTRIC DUCT (SPECIFY NUMBER)
- T --- EXISTING TELEPHONE BURIED CABLE OR SINGLE CONDUIT
- T-4D --- EXISTING UNDERGROUND TELEPHONE DUCT (SPECIFY NUMBER)
- CATV --- EXISTING UNDERGROUND CABLE TV
- FO --- EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING TRAFFIC SIGNAL POLE W/MAST ARM & SIGNAL INDICATIONS
- EXISTING STREET OR TRAFFIC SIGN
- EXISTING UTILITY POLE W/LINE INDICATING WIRE DIRECTION
- EXISTING WIRE FENCE
- EXISTING BLOCK FENCE
- EXISTING WOOD FENCE
- MAIL BOX
- EXISTING POWER POLE DOWN GUY ANCHOR
- EXISTING STREET LIGHT & POLE
- EXISTING TREE OR STUMP TO BE REMOVED – MORE THAN 12" DIA.
- EXISTING TREE TO BE TRANSPLANTED BY CONTRACTOR
- EASEMENT LINE
- EXISTING OR NEW R/W LINE
- PAVEMENT CENTER LINE OR MONUMENT LINE
- EXISTING TREE OR STUMP TO BE REMOVED 12" DIA. OR LESS (NON PAY ITEM)
- EXISTING TREE TO REMAIN

DESIGN DATA

1ST STREET
 CLASSIFICATION.....MINOR COLLECTOR
 TERRAIN.....LEVEL
 DESIGN SPEED.....30 MPH
 MIN K VALUE (SAG).....37
 MIN K VALUE (CREST).....19

LEGEND AND NOTES

1. GENERAL NOTES: CONSTRUCTION INSPECTION AND TESTING

- a. All public improvement construction within the Town of Florence public ROW and onsite shall be conducted in accordance with, and conform to, the latest edition of the Uniform Standard Specifications for Public Works Construction and Uniform Standard Details for Public Works Construction, both as published by the Maricopa Association of Governments (MAG).
- b. Inspection of work per MAG 105.10: The Engineer shall be permitted to inspect all materials, and each part or detail of the work at any time for the purpose of expediting and facilitating the progress of work. He shall be furnished with such information and assistance by the contractor, as is required to make a complete and detailed inspection. The Town Engineer requires that the actual test result data sheet accompany all compaction test results submitted to the Town's inspector. Pass/Fail statements are not acceptable without the attached data sheet. Failure to submit the test result data sheets will result in an incomplete submittal and the test will be rejected.
- c. In the event of conflict between MAG Standard Specifications and Details and these plans, these plans shall prevail.
- d. The office of the Town Engineer shall be notified at least forty-eight (48) hours prior to the commencement of any work within the Town of Florence ROW. TELEPHONE: 520-868-7617.
- e. Contractor is to notify all public utilities at least two (2) working days prior to construction, for field locations of their respective facilities, by contacting the following: BLUE STAKE: 1-800-782-5348.
- f. Contractor shall identify, coordinate and make arrangements for relocation of any utilities conflicting with the proposed construction of these plans, with the appropriate utility.
- g. Identification, removal and replacement of all trees, shrubs, vegetation, miscellaneous structures, debris, rubble and other deleterious materials within the limits of construction shall be at the contractor's expense.
- h. All concrete sidewalks, driveways, aprons, cross-pans, valley gutter, curbs and gutters landscaping and irrigation that may be damaged during the course of constructions shall be removed and replaced by the contractor at the contractor's expense. Shoring is to be installed or a trench box is to be used, in all trenches in excess of five (5') feet in depth. A registered civil engineer or soils engineer shall certify shoring installation plans, details and specifications. Shoring must conform to OSHA 29 CFR, Part 1926, and Subpart D.
- i. Compaction testing is required and must be performed in the presence of a representative of the Town Engineer.
- j. BACKFILL: Backfill within the public utility easements and within public street ROW shall be compacted to 95% of maximum theoretical density per ASTM D698. All materials outside the moisture limit shall be considered unsuitable, and subject to removal. No hydraulic compaction or water jet compaction will be allowed. All compaction must be done by mechanical means. Moisture limit spec: 2.0 percent below optimum moisture, material shall be uniform.
- k. SUB GRADE: Sub-grade preparation for all new streets and roadways shall consist of scarifying and loosening sub-grade to a depth of six (6") inches. Sub-grade shall be constructed to achieve uniform moisture content by the addition of water and compacted to 95% of maximum density. Moisture shall be maintained between optimum and 4.0% below optimum moisture and shall be compacted to 95% on maximum theoretical density, as determined by ASTM D698. All materials outside the moisture limit at the time of placement and compaction shall be considered unsuitable and subject to removal. The finished surface of the sub-grade shall not vary from the grades established by the Town Engineer by more than: 0.04 of a foot above or below specified grade.
- l. Grading of aggregate bases and aggregate sub-base shall be as follows: Aggregate materials shall have water added to them and shall be mixed and processed to produce a uniform blend of material before placement. After processing, the material shall be placed and spread on the prepared sub-grade and shall be placed in a uniform layer or layers not exceeding six (6") inches in compacted depth, unless otherwise approved in writing by the Town Engineer. Each layer of aggregate base shall be compacted to a density of not less than 100% of the maximum density. The finished surface of the sub-grade shall not vary from the grades established by the Town Engineer by more than: 0.04 of a foot above or below specified grade.
- m. Compaction testing for sub-grade will be done after the sub-grade has been string lined and is within tolerance and accepted by the Town Engineer. The Town Engineer or his representative will direct the number and location of density tests. All sub-grades shall have a blue-top elevation set to finished grade and left and right edges of pavement, and centerline of roadway.
- n. One (1) sand cone test shall be required for every ten (10) nuclear density tests performed, or when requested by the Town Engineer or his representative. The Town Engineer or Engineer's representative shall determine the locations of these sand cone tests.
- o. All materials, including but not limited to aggregate base course, borrow material and native material, will be accepted in place only. Testing required for acceptance will include a sieve analysis and plasticity index, (P.I.). Determination of maximum theoretical density will be in accordance with ASTM D698. Only a four-point proctor test will be accepted.
- p. The base course shall not be placed on sub-grade until the Town Engineer has accepted the sub-grade. All materials will be accepted in place only. Compaction densities: MAG type I Backfill material (Section 601.4.4) is modified to include areas under the pavement, ROW, and easements for all trenches including sewer, water, electric, and gas, telephone, and storm drains, moisture spec. 2.0 percent below optimum moisture compact to 95% of maximum theoretical density. All materials outside the moisture spec-limit shall be considered unsuitable, subject to removal and material shall be uniform.
- q. The location of all sewer stub-outs shall be stamped on the top of vertical curb, and face of rolled curbs, with a four (4") inch high letters (IE: "S").
- r. All curb, gutter and sidewalk expansion joint filler will be 1/2" bituminous pre-molded strips. All expansion joint spacing shall not exceed a maximum of (50') feet or as directed by the Town Engineer. Concrete curing compound material shall be a white pigment membrane used on all concrete structures including curb & gutter, sidewalk, headwall, catch basins and sidewalk ramps.
- s. Paving will not commence until aggregate base course compaction and gradation tests are completed and the Town Engineer accepts the results.
- t. USPS Cluster Mail Box locations must be pre-determined and noted on the civil plans for grading and paving. Add cluster boxes to the Legend and in Construction Notes. Cluster Box locations should be shown on the "Overall Sewer/Water/Hydrant/Streetlight Plan."
- u. Median Curb & Gutter Bull Nose shall be painted yellow, with reflective glass beads, per M. A. G. DTL-223, and have yellow pavement reflectors installed after the painting is complete.

WILSON & COMPANY
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LEGEND AND NOTES

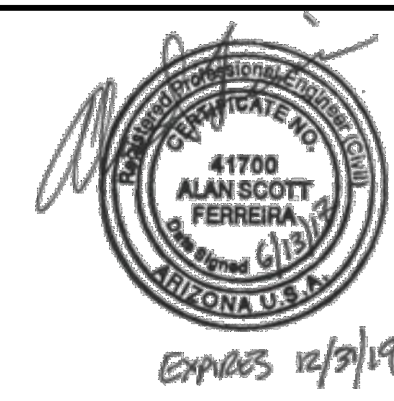
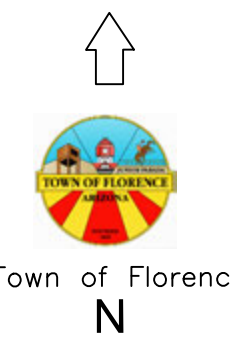
TOWN OF FLORENCE, ARIZONA

**1st STREET
 LEGEND AND NOTES**

DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	2	32
SCALE: N/A				

M:\FRM\16-100-112-01\2-DISCIPLINES\SHEETS\1-SHEETS - GENERAL\GENERAL NOTES AND LEGEND.DWG, 1/26/2017

1st STREET PAVEMENT
 FLORENCE – PINAL CO.
 MAIN STREET TO HIGHWAY 79



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

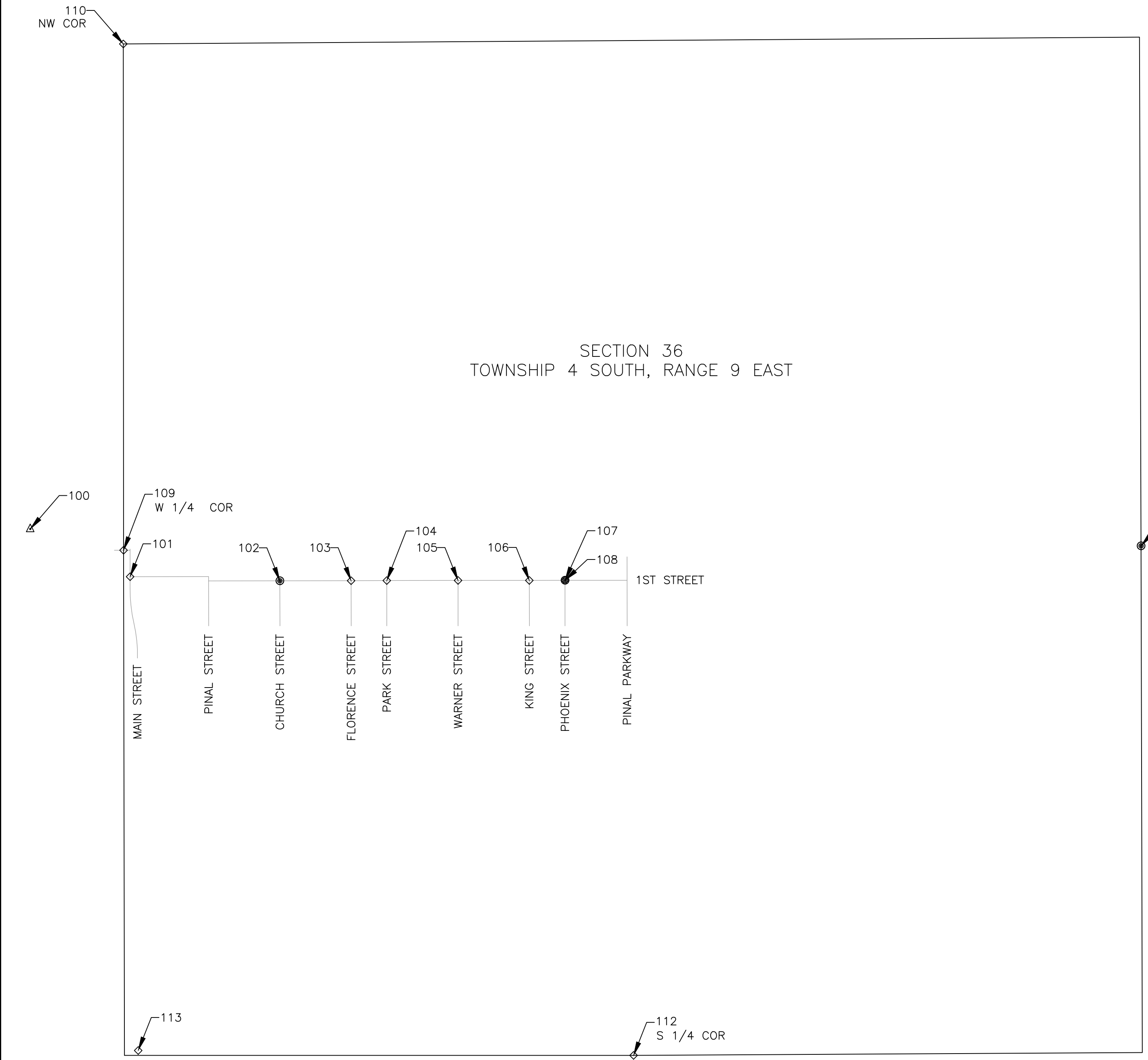
CONSULTING ENGINEER

DES: DR: CK: DATE:

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



SURVEYOR'S NOTES

1. NGS OPUS PROJECTS WAS USED TO PROCESS STATE PLANE COORDINATE VALUES. THE COORDINATES WERE THEN SCALED AROUND POINT 100 BY A COMBINED FACTOR OF 1.0001358184 TO DETERMINE GROUND COORDINATE VALUES.
2. SURVEYED UNDER THE SUPERVISION OF NATHAN GARDNER, RLS, ARIZONA CERTIFICATE NO. 36786, DURING THE MONTH OF NOVEMBER 2016.
3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL IN THE FIELD PRIOR TO CONSTRUCTION.
4. PROJECT META DATA FOR OPUS PROJECTS ADJUSTMENT
 UNITS:
 COORDINATES, DISTANCES, AND ELEVATIONS ARE SHOWN IN INTERNATIONAL FEET

 HORIZONTAL DATUM:
 NAD83 (2010 EPOCH) ARIZONA CENTRAL ZONE

 VERTICAL DATUM:
 NAVD88

 PROJECT BENCHMARKS:
 POINT NUMBER 100
 SET 2" ALUMINUM CAP ON #5 REBAR
 STAMPED "WILSON & COMPANY CP 100"
5. THIS IS NOT A PROPERTY BOUNDARY SURVEY.

CONTROL POINT DATA TABLE (GROUND)				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	742036.04	861624.65	1473.35	SET ALUMINUM CAP ON #5 REBAR
101	741788.73	862142.99	1471.26	FOUND PK NAIL
102	741767.93	862920.80	1475.16	FOUND #4 REBAR
103	741768.51	863290.75	1478.24	FOUND ALUMINUM CAP WITH NO MARKINGS
104	741768.76	863475.82	1480.07	FOUND ALUMINUM CAP WITH NO MARKINGS
105	741769.36	863845.81	1482.57	FOUND ALUMINUM CAP STAMPED LS 17258
106	741770.02	864215.70	1482.86	FOUND ALUMINUM CAP STAMPED LS 17258
107	741770.25	864400.85	1481.93	FOUND ILLEGIBLE ALUMINUM CAP
108	741770.08	864400.94	1481.93	FOUND #4 REBAR
109	741926.11	862109.35	1473.07	FOUND BRASS CAP STAMPED 1/4 LS 20358
110	744554.27	862107.52	1475.26	FOUND PINAL COUNTY HWY DEPT. ALUMINUM CAP STAMPED 409203
111	741949.11	867391.65	1495.42	FOUND #4 REBAR WITH ILLEGIBLE YELLOW PLASTIC CAP
112	739304.28	864757.02	1510.80	FOUND ILLEGIBLE GLO BRASS CAP IN HAND HOLE
113	739330.13	862185.05	1489.39	FOUND ARIZONA HWY DEPT. BRASS CAP IN HAND HOLE

WILSON & COMPANY
 410 N. 44TH STREET, SUITE 460
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 (602) 283-2701

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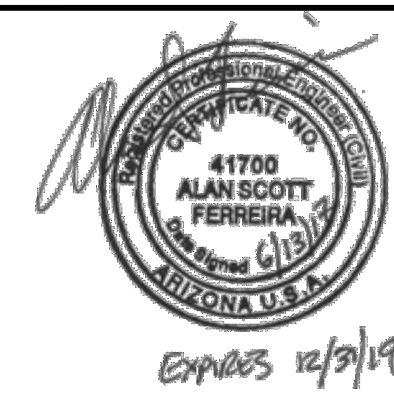
SURVEY CONTROL
 TOWN OF FLORENCE, ARIZONA

1st STREET SURVEY CONTROL

DR: EAH	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	4	32
SCALE: 1" = 20' H.		1" = 5' V.		

M:\TRN\16-100-112-01\2_DISCIPLINES\SURVEY\DRAWINGS\161112_SURVEY_CONTROL_FLORENCE_1ST_STREET.DWG, 1/26/2017

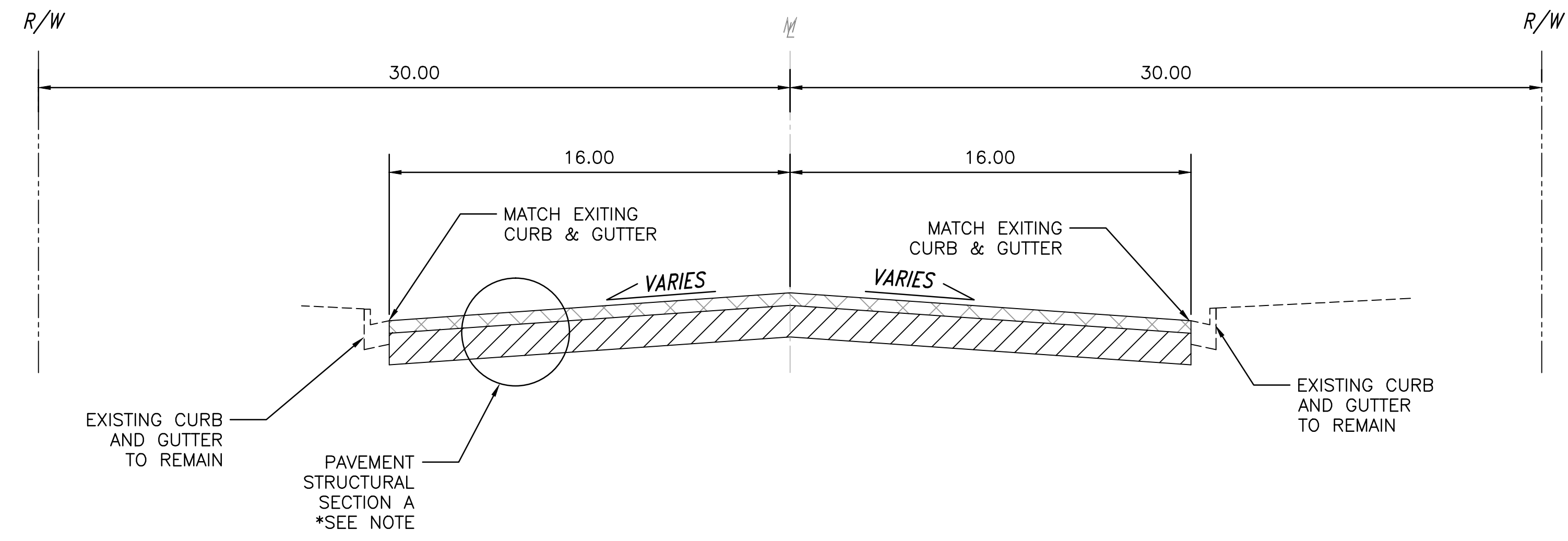
1st STREET PAVEMENT
FLORENCE - PINAL CO.
MAIN STREET TO HIGHWAY 79



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

CONSULTING ENGINEER
DES: DR: CK: DATE:

REVISION BY TOWN OF FLORENCE	DESCRIPTION	REV BY	CHK BY	DATE
NO.				
NO.				
NO.				
NO.				



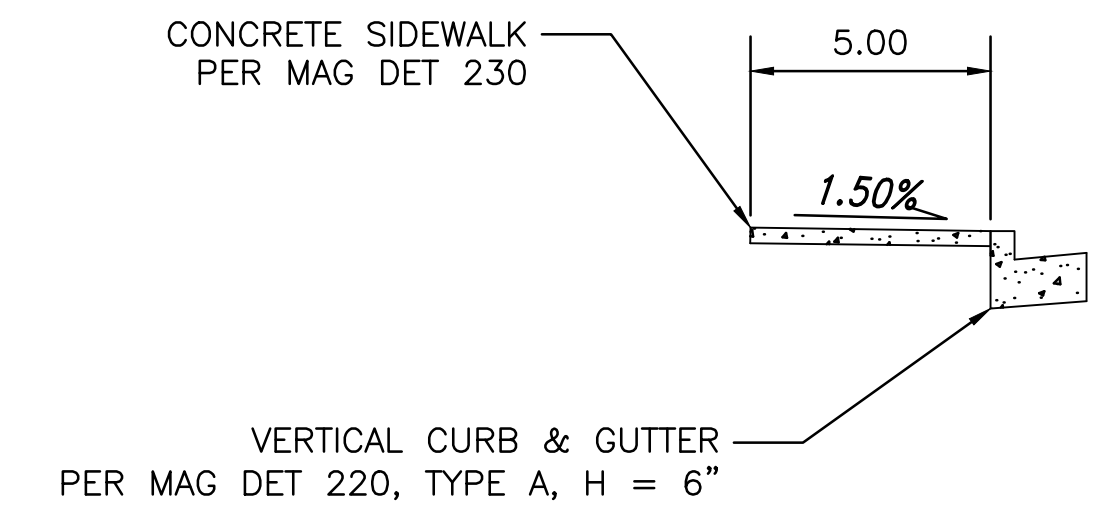
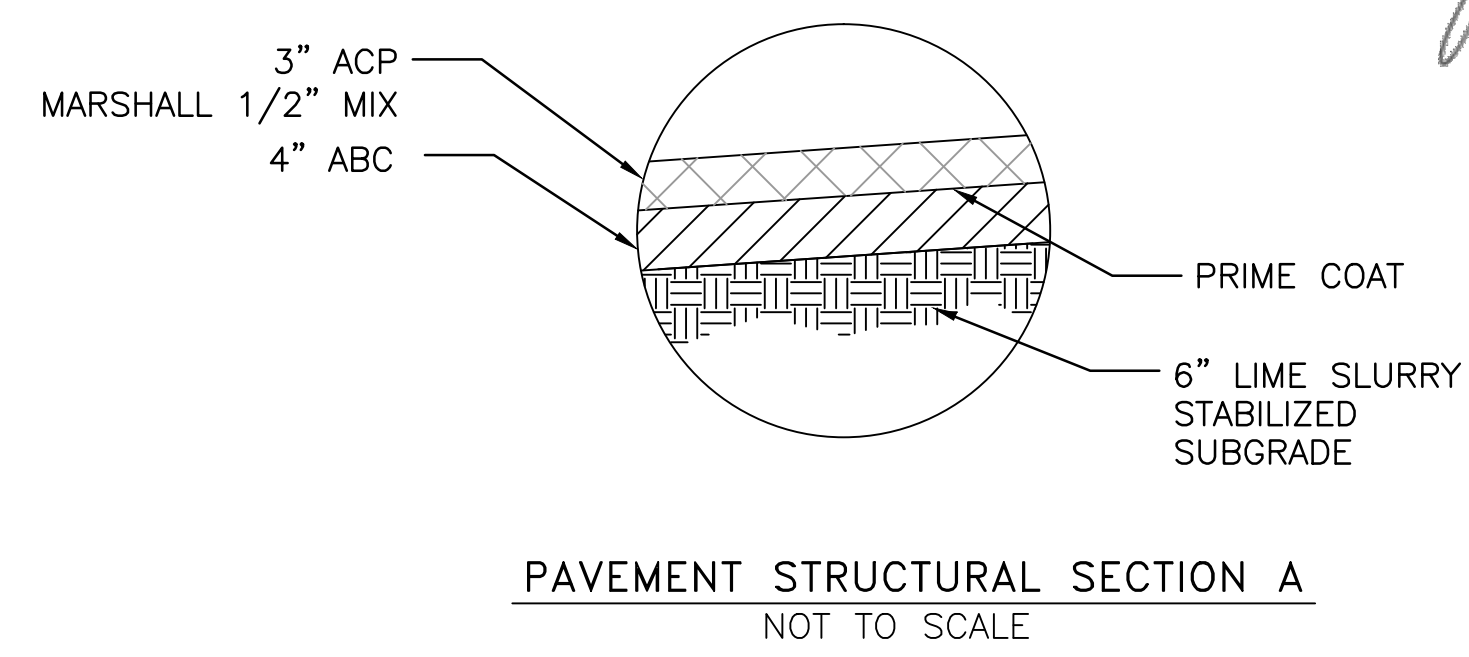
1st STREET - TYPICAL SECTION
1"=4'
STA 0+17.54 TO STA 04+35.00
STA 11+22.00 TO STA 25+40.67

NOTE: WHEN POOR SUB-BASE CONDITIONS ARE IDENTIFIED IN THE FIELD, THE TOWN ENGINEER SHALL BE NOTIFIED AND COORDINATE WITH THE CONTRACTOR IF ONE OF THE OTHER ALTERNATIVE SECTIONS SHOULD BE USED TO MITIGATE THE ISSUE AND INCREASE PAVEMENT PERFORMANCE. CONTRACTOR SHALL BID 3 ALTERNATIVE PAVEMENT SECTIONS (BELOW) FOR USE IN LIEU OF PAVEMENT STRUCTURAL SECTION A. QUANTITIES FOR ALTERNATE PAVEMENT SECTIONS ARE BASED ON POOR SUBGRADE AREAS IDENTIFIED IN TERRACON'S PAVEMENT ENGINEERING REPORT, REVISION 1, DATED JAN. 23, 2017.

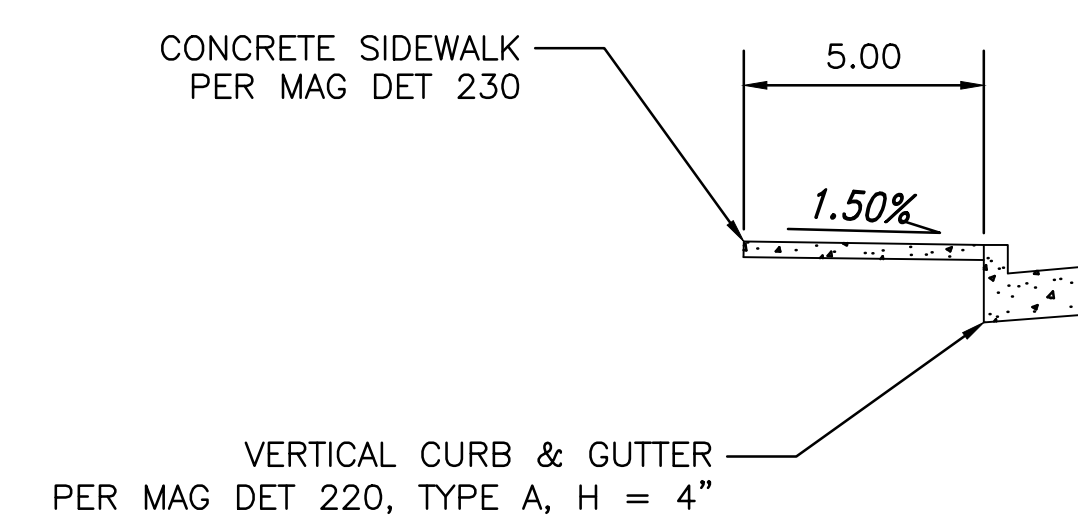
***EXISTING TYPICAL SECTION**

STATION	ID	LOC	ASPHALT DEPTH
03+00.00	BH-1	LT	3"
06+50.00	BH-2	RT	1.5"
11+00.00	BH-3	LT	1.75"
15+00.00	BH-4	RT	2.5"
19+50.00	BH-5	RT	2.5"
24+00.00	BH-6	RT	2"

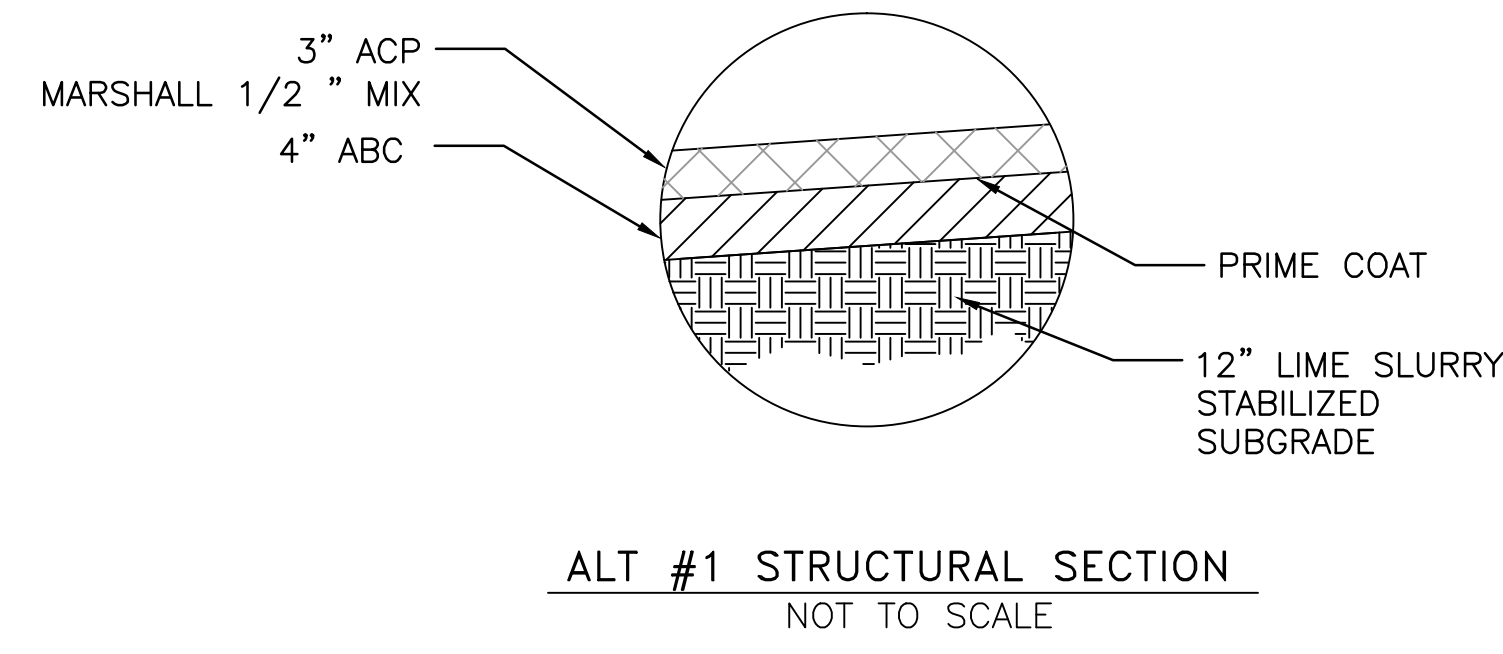
*FOR CONTRACTOR'S INFORMATION ONLY. PROVIDED BY TERRACON'S PAVEMENT ENGINEERING REPORT, JAN. 23, 2017.



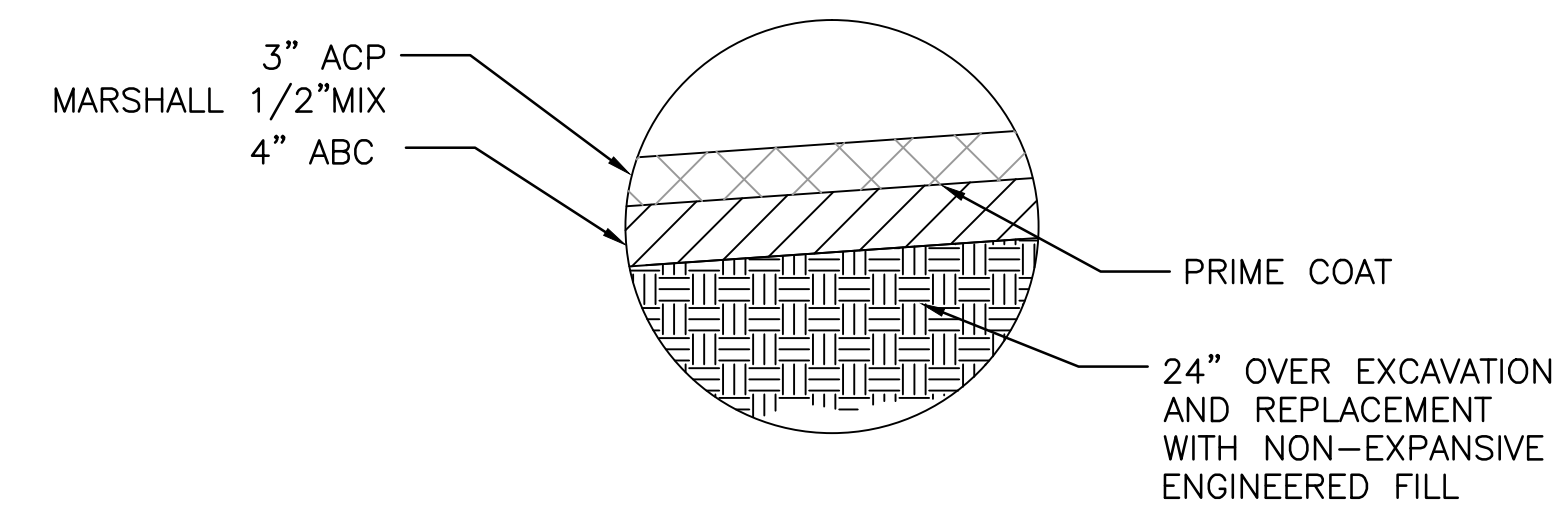
1st STREET - TYPICAL SECTION A
1"=4'
STA 04+35.00 TO STA 11+22.00



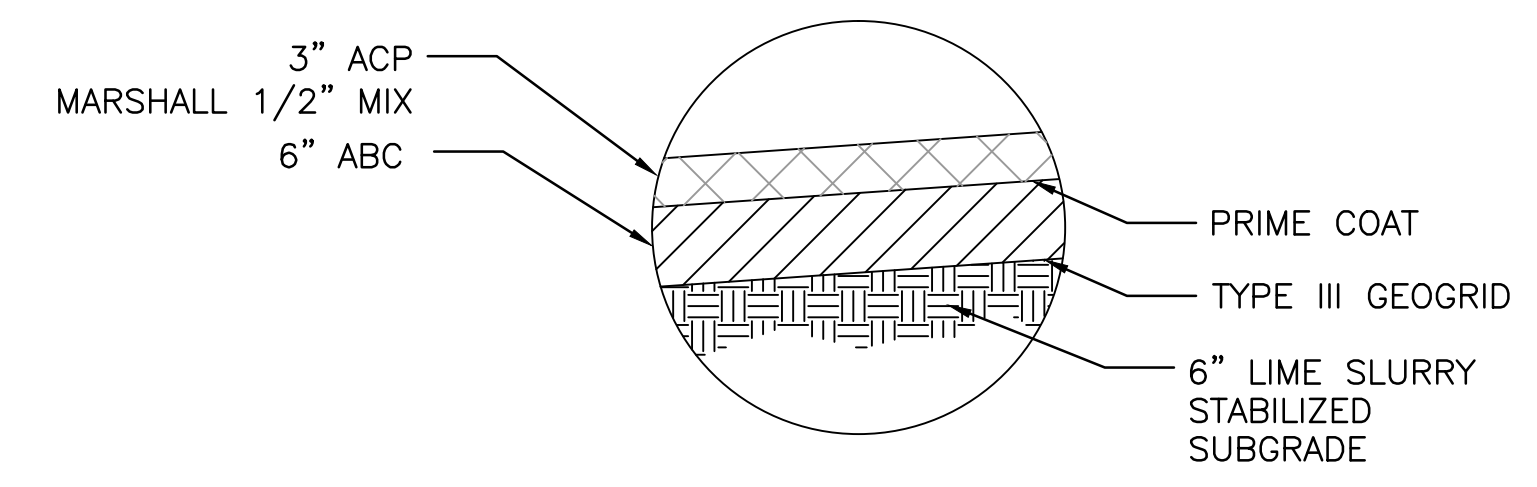
1st STREET - TYPICAL SECTION B
1"=4'
STA 22+28.00 TO STA 23+18.00



ALT #1 STRUCTURAL SECTION
NOT TO SCALE



ALT #2 STRUCTURAL SECTION
NOT TO SCALE



ALT #3 STRUCTURAL SECTION
NOT TO SCALE

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LEGEND AND NOTES
TOWN OF FLORENCE, ARIZONA

1st STREET TYPICAL SECTION

DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	5	32
SCALE: N/A				

M:\FRM\16-100-112-01\2_DISCIPLINES\SHEETS\2_SHEETS - CIVIL\DETAILS.DWG, 1/26/2017

1st STREET PAVEMENT
FLORENCE – PINAL CO.
MAIN STREET TO HIGHWAY 79



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

CONSULTING ENGINEER
DES: DR: CK: DATE:

- KEYED NOTES:**
- SAW CUT EXISTING PAVEMENT. NEW PAVEMENT TO MATCH EXISTING ELEVATION. CONTRACTOR TO VERIFY EXISTING ELEVATION.
 - BUILD ADA CURB RAMP PER MAG DETAIL 235-3. CONTRACTOR TO VERIFY EXISTING & PROPOSED ELEVATIONS.
 - TRANSITION SIDEWALK (AT NEAREST JOINT) FROM EXISTING WIDTH TO 5' WIDE SIDEWALK.
 - TRANSITION EXISTING ROLL CURB & GUTTER (AT NEAREST JOINT) TO 4" TYPE A VERTICAL CURB & GUTTER PER MAG DETAIL 221. LIP OF CURB ELEVATION TO MATCH EXISTING ELEVATION. CONTRACTOR TO VERIFY EXISTING & PROPOSED ELEVATIONS.
 - BUILD SIDEWALK SCUPPER PER MAG DETAIL 206 AND SAFETY RAILING PER MAG DETAIL 145. SAFETY RAILING TO BE PAINTED MESA TAN OR APPROVED EQUIVALENT WITH A GLOSS FINISH (CONTINGENT UPON PM APPROVAL) AND TO UTILIZE TYPE 4 MOUNTING ON MAG DETAIL 145.
 - ADJUST WATER VALVE TO GRADE PER MAG DETAIL 391.
 - BUILD VALLEY GUTTER PER MAG DETAIL 240. CONTRACTOR TO MATCH EXISTING ELEVATIONS. CONTRACTOR TO VERIFY EXISTING ELEVATIONS.
 - BUILD 5' SIDEWALK PER MAG DETAIL 230.
 - BUILD 6" TYPE A CURB & GUTTER PER MAG DETAIL 220-1.

- REMOVAL NOTES:**
- REMOVE EXISTING CONCRETE SCUPPER
 - REMOVE EXISTING CONCRETE SPILLWAY
 - REMOVE EXISTING CONCRETE 4-FT SIDEWALK
 - REMOVE EXISTING CONCRETE 4-INCH ROLL CURB & GUTTER
 - REMOVE EXISTING VALLEY GUTTER
 - REMOVE EXISTING ASPHALT PAVEMENT

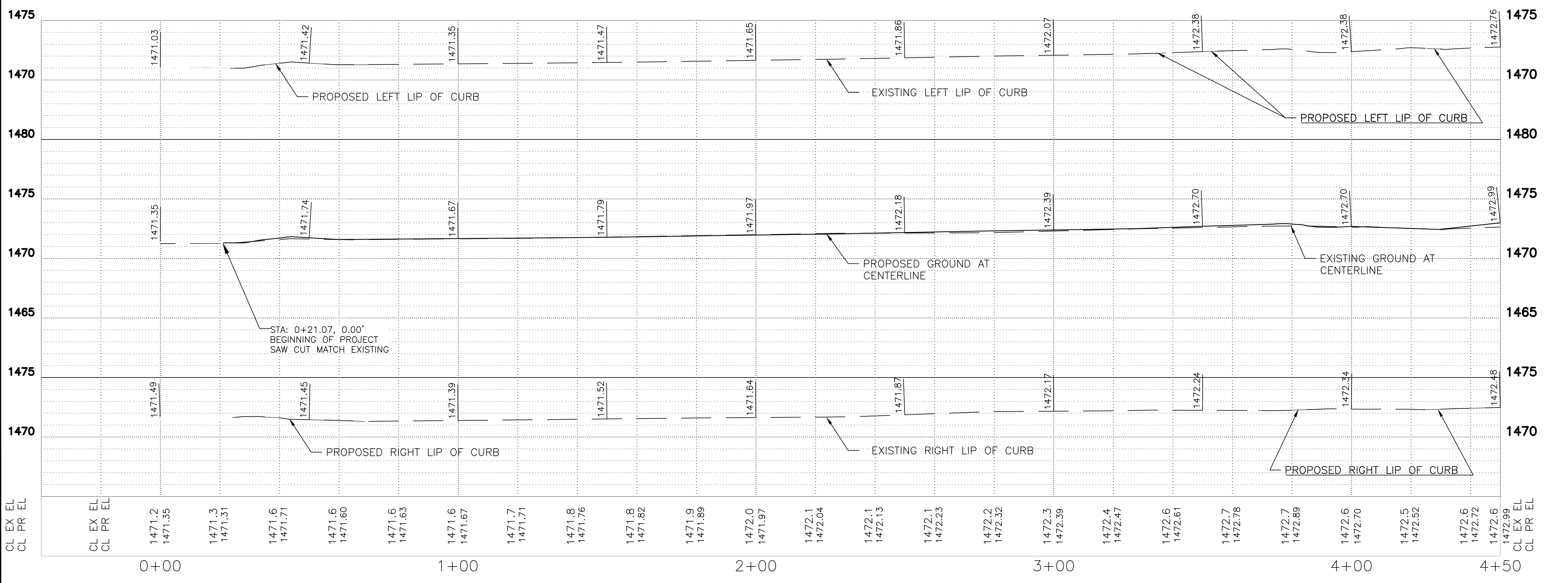
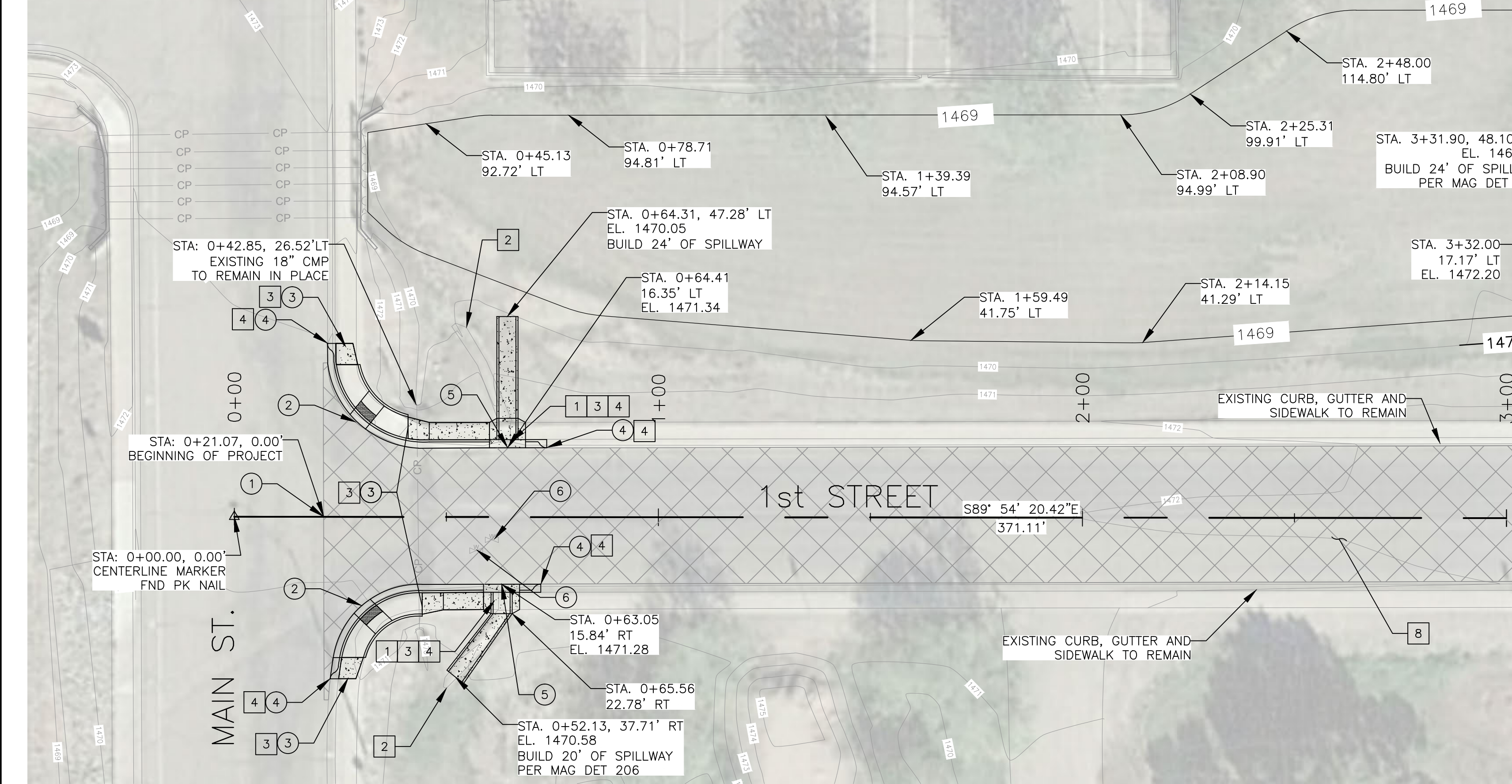


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PAVING
TOWN OF FLORENCE, ARIZONA

1st STREET
BOP TO STA 4+50

DR: TGO	DES: CLL	CK: ASF	SHEET NO: 6	TOTAL SHEETS: 32
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017		
SCALE: 1" = 20' H.		1" = 5' V.		



REVISION BY TOWN OF FLORENCE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY TOWN OF FLORENCE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

REVISION BY TOWN OF FLORENCE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

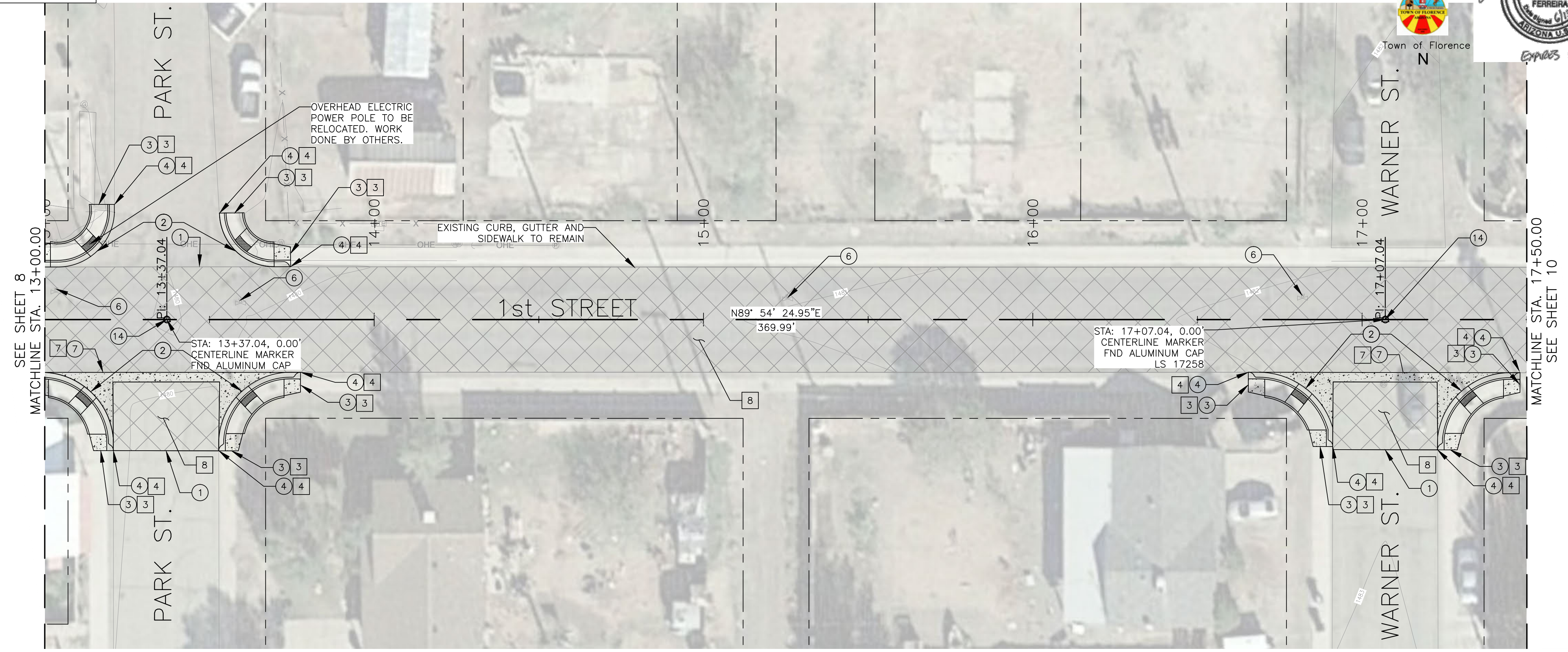
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1st STREET PAVEMENT
 FLORENCE – PINAL CO.
 MAIN STREET TO HIGHWAY 79

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

NO.	DESCRIPTION	REV BY	CHKD BY	DATE

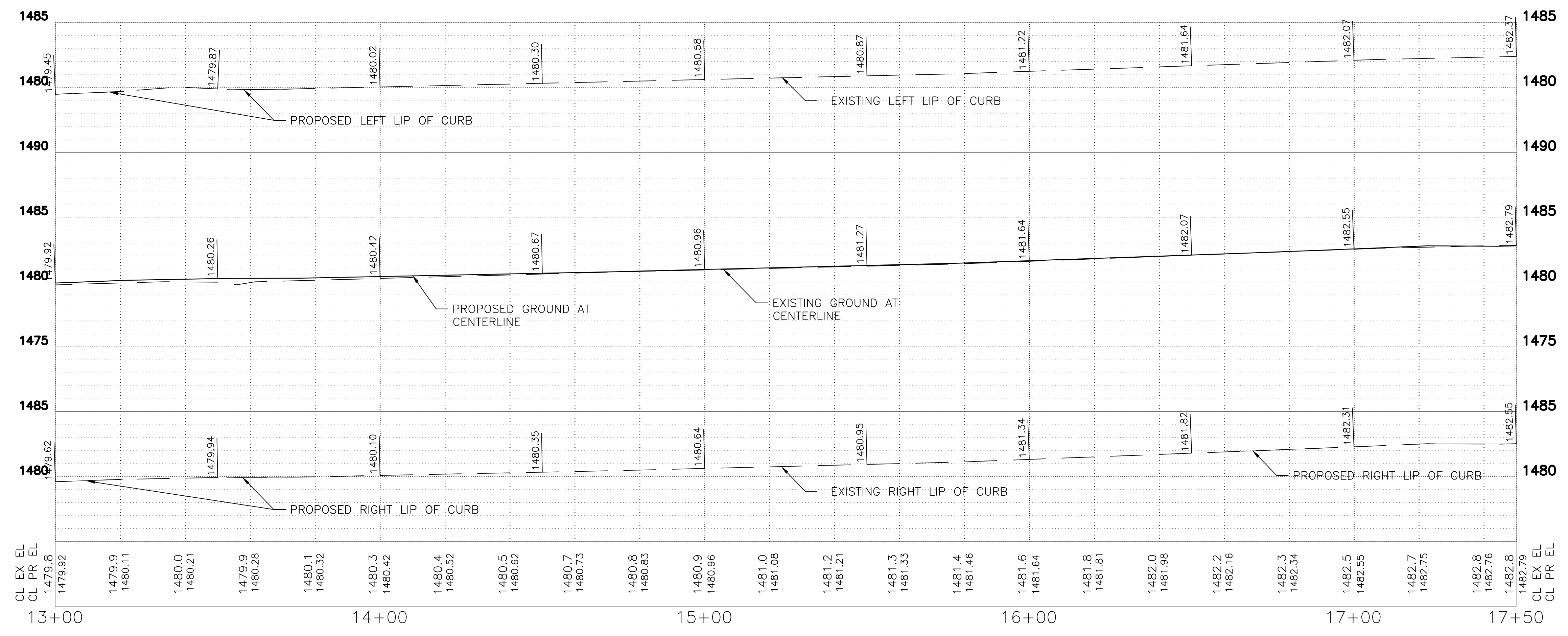
NO.	DESCRIPTION	REV BY	CHKD BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

DES	DR:	CK:	DATE:

- KEYED NOTES:**
- SAW CUT EXISTING PAVEMENT. NEW PAVEMENT TO MATCH EXISTING ELEVATION. CONTRACTOR TO VERIFY EXISTING ELEVATION.
 - BUILD ADA CURB RAMP PER MAG DETAIL 235-3. CONTRACTOR TO VERIFY EXISTING & PROPOSED ELEVATIONS.
 - TRANSITION SIDEWALK (AT NEAREST JOINT) FROM EXISTING WIDTH TO 5' WIDE SIDEWALK.
 - TRANSITION EXISTING ROLL CURB & GUTTER (AT NEAREST JOINT) TO 4" TYPE A VERTICAL CURB & GUTTER PER MAG DETAIL 221. LIP OF CURB ELEVATION TO MATCH EXISTING ELEVATION. CONTRACTOR TO VERIFY EXISTING & PROPOSED ELEVATIONS.
 - ADJUST WATER VALVE TO GRADE PER MAG DETAIL 391.
 - BUILD VALLEY GUTTER PER MAG DETAIL 240. CONTRACTOR TO MATCH EXISTING ELEVATIONS. CONTRACTOR TO VERIFY EXISTING & PROPOSED ELEVATIONS.
 - INSTALL TYPE B SURVEY MARKER PER MAG DETAIL 120.



- REMOVAL NOTES:**
- REMOVE EXISTING CONCRETE 4-FT SIDEWALK
 - REMOVE EXISTING CONCRETE 4-INCH ROLL CURB & GUTTER
 - REMOVE EXISTING VALLEY GUTTER
 - REMOVE EXISTING ASPHALT PAVEMENT



WILSON & COMPANY 410 N. 44TH STREET, SUITE 460
 PHOENIX, AZ 85008
 (602) 283-2701

PAVING
 TOWN OF FLORENCE, ARIZONA

1st STREET
 STA 13+00 TO STA 17+50

DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	9	32
SCALE: 1" = 20' H. 1" = 5' V.				

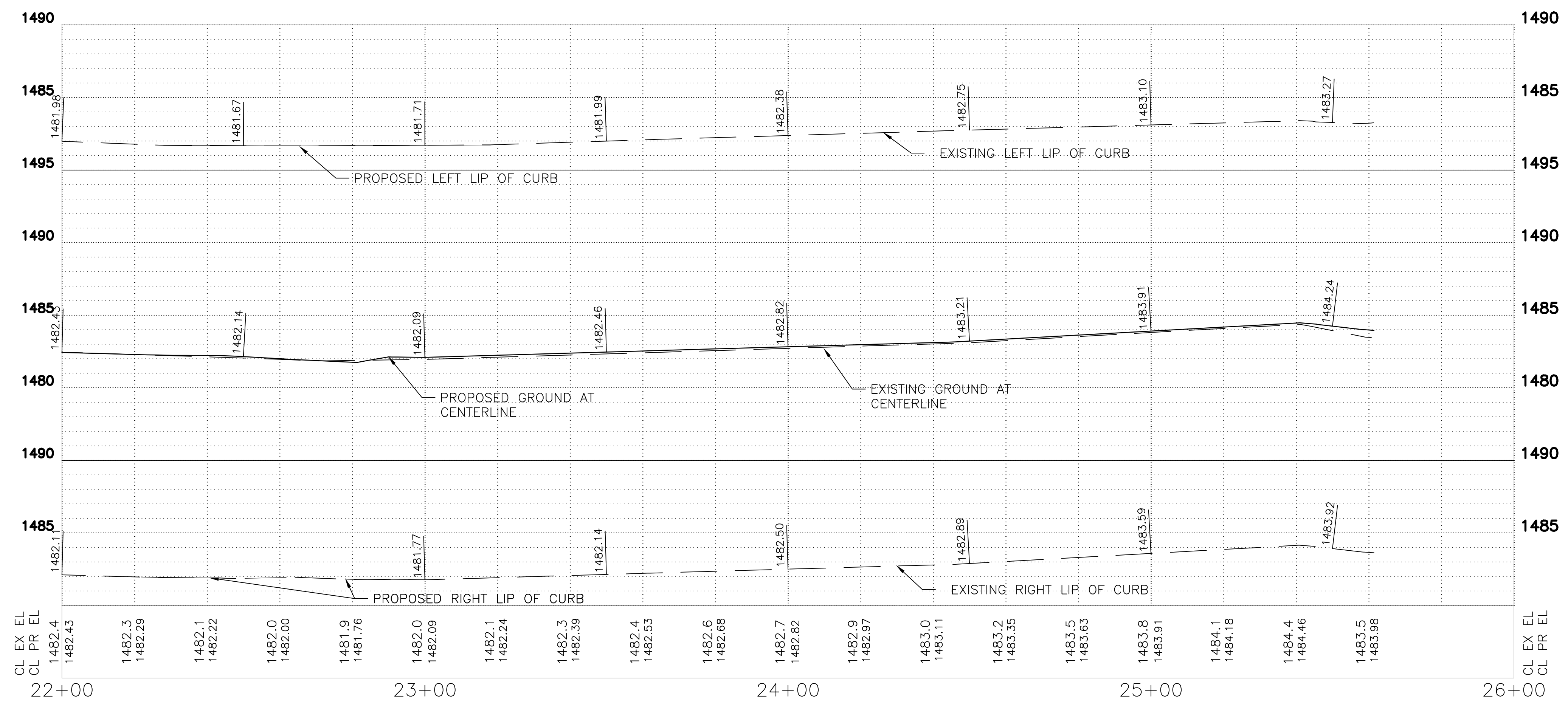
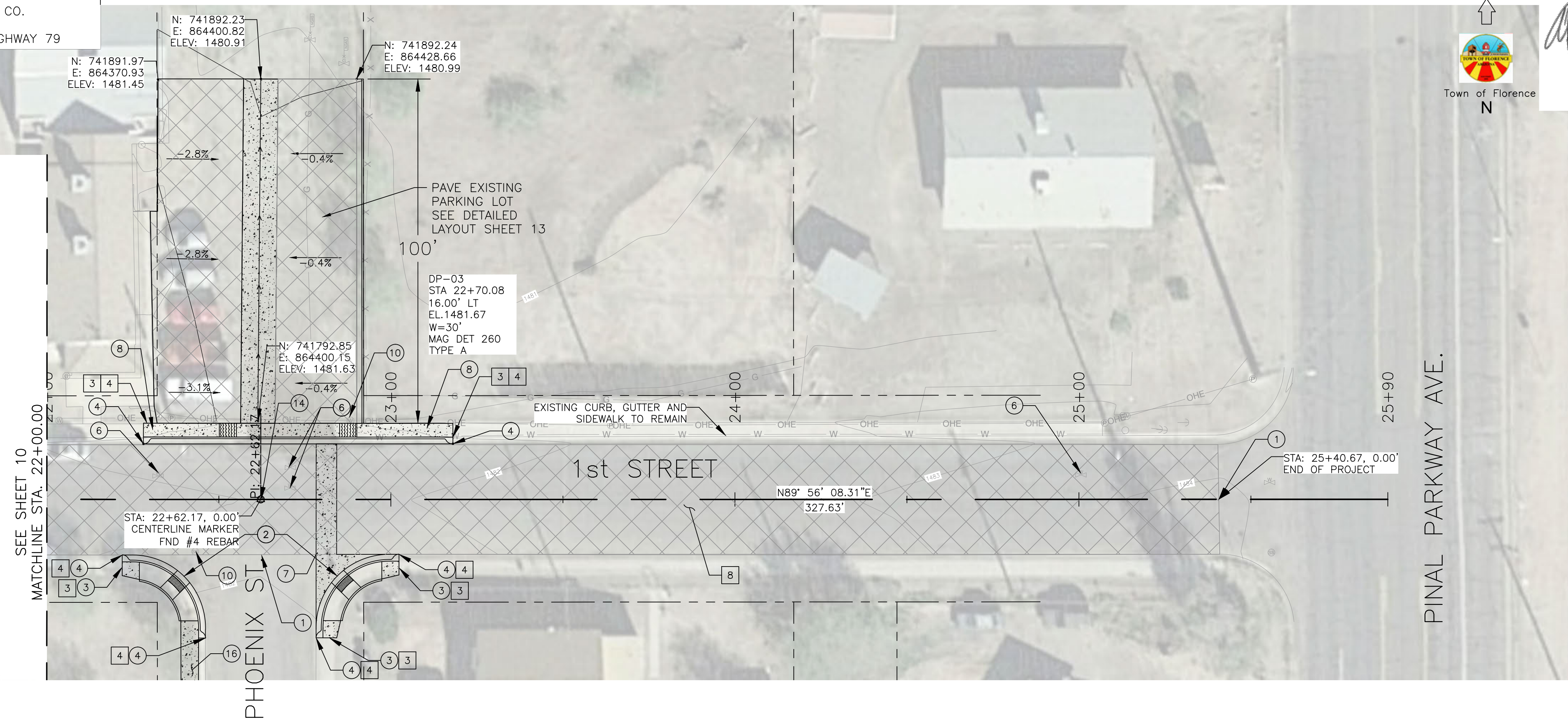
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1st STREET PAVEMENT
 FLORENCE – PINAL CO.
 MAIN STREET TO HIGHWAY 79

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE

NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

DES	DR	CK	DATE

- KEYED NOTES:**
- SAW CUT EXISTING PAVEMENT. NEW PAVEMENT TO MATCH EXISTING ELEVATION. CONTRACTOR TO VERIFY EXISTING ELEVATION.
 - BUILD ADA CURB RAMP PER MAG DETAIL 235-3. CONTRACTOR TO VERIFY EXISTING & PROPOSED ELEVATIONS.
 - TRANSITION SIDEWALK (AT NEAREST JOINT) FROM EXISTING WIDTH TO 5' WIDE SIDEWALK.
 - TRANSITION EXISTING ROLL CURB & GUTTER (AT NEAREST JOINT) TO 4" TYPE A VERTICAL CURB & GUTTER PER MAG DETAIL 221. LIP OF CURB ELEVATION TO MATCH EXISTING ELEVATION. CONTRACTOR TO VERIFY EXISTING & PROPOSED ELEVATIONS.
 - ADJUST WATER VALVE TO GRADE PER MAG DETAIL 391.
 - BUILD VALLEY GUTTER PER MAG DETAIL 240. CONTRACTOR TO MATCH EXISTING ELEVATIONS. CONTRACTOR TO VERIFY EXISTING ELEVATIONS.
 - BUILD 5' SIDEWALK (AT NEAREST JOINT) PER MAG DETAIL 230.
 - ADJUST SANITARY SEWER MANHOLE TO GRADE PER MAG DETAIL 422.
 - INSTALL TYPE B SURVEY MARKER PER MAG DETAIL 120.
 - CONTINUE 5' SIDEWALK ALONG PHOENIX ST. WHERE SIDEWALK IS MISSING AND TIE INTO EXISTING.

- REMOVAL NOTES:**
- REMOVE EXISTING CONCRETE 4-FT SIDEWALK
 - REMOVE EXISTING CONCRETE 4-INCH ROLL CURB & GUTTER
 - REMOVE EXISTING ASPHALT PAVEMENT



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 (602) 283-2701

PAVING
 TOWN OF FLORENCE, ARIZONA

1st STREET
 STA 22+00 TO EOP

DR	DES	CK	SHEET NO.	TOTAL SHEETS
TGO	CLL	ASF	11	32

DATE: 6/2017 DATE: 6/2017 DATE: 6/2017
 SCALE: 1" = 20' H. 1" = 5' V.

M:\TRN\16-100-112-01\2_DISCIPLINES\SHEETS\2_SHEETS - CIVIL\PLAN AND PROFILES.DWG, 1/26/2017

1st STREET PAVEMENT
 FLORENCE – PINAL CO.
 MAIN STREET TO HIGHWAY 79

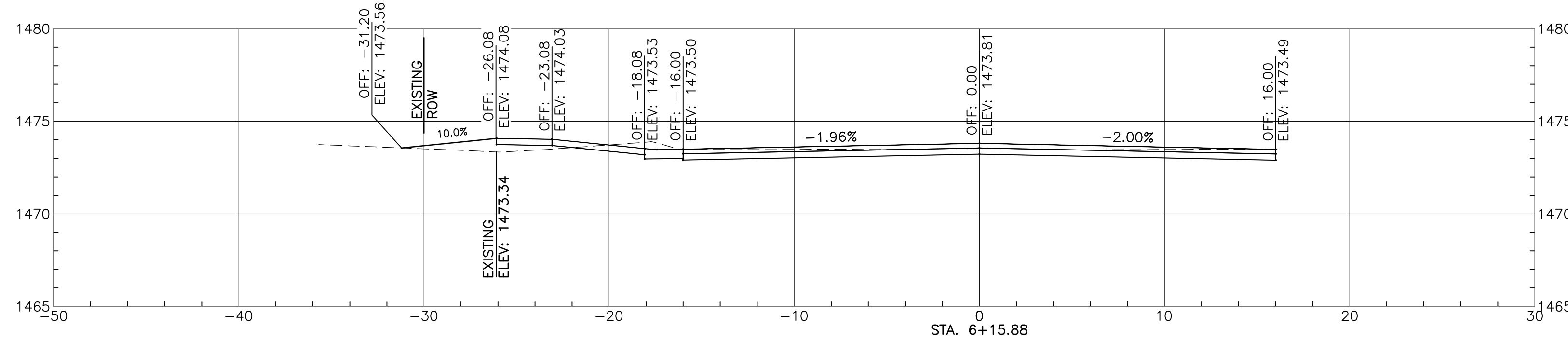


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			
CONSULTING ENGINEER				
DES	DR:	CK:	DATE:	

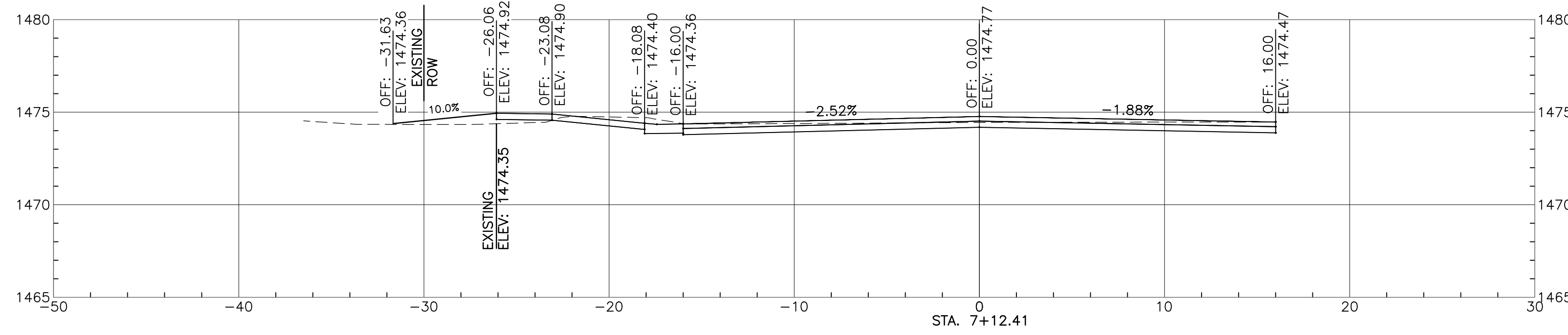
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NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

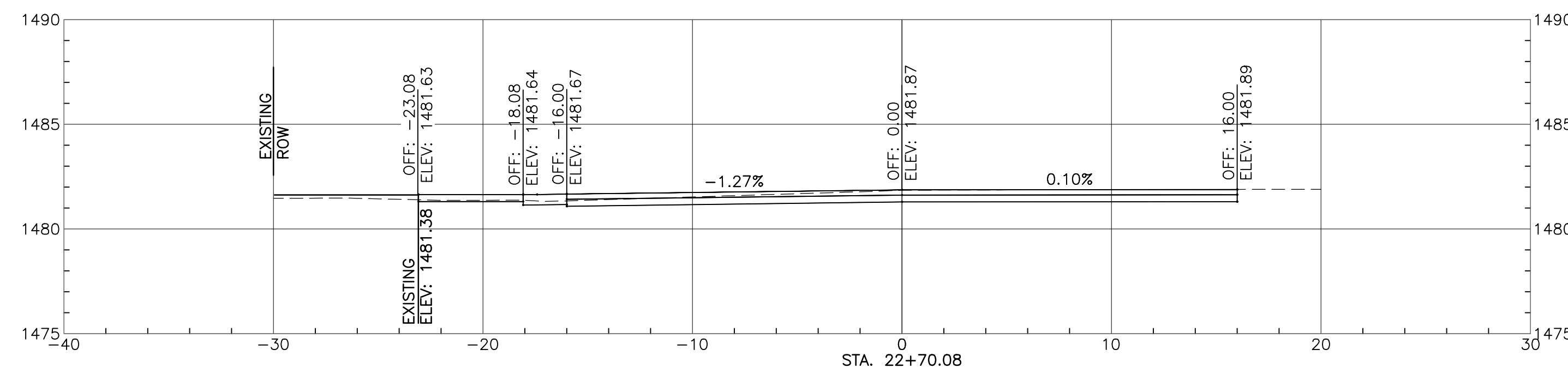
REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION



DP-01
 STA 6+15.88, LT., NORTH SIDE OF 1ST ST.
 BUILD 10' DRIVEWAY PER STD. MAG DWG
 250-2



DP-02
 STA 7+12.41, LT., NORTH SIDE OF 1ST ST.
 BUILD 10' DRIVEWAY PER STD. MAG DWG
 250-2



DP-03
 STA 22+70.08 LT., NORTH SIDE OF 1ST ST.
 BUILD 30' DRIVEWAY PER STD. MAG DWG
 260 (TYPE A)

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LEGEND AND NOTES				
TOWN OF FLORENCE, ARIZONA				
1st STREET DRIVEWAY PROFILES				
DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	12	32
SCALE: N/A	N/A			

M:\TRN\16-100-112-01\2_DISCIPLINES\REFERENCES\1ST STREET DESIGN.DWG, 1/26/2017

1st STREET PAVEMENT
 FLORENCE - PINAL CO.
 MAIN STREET TO HIGHWAY 79

NO.	DESCRIPTION	REV BY	CHK BY	DATE

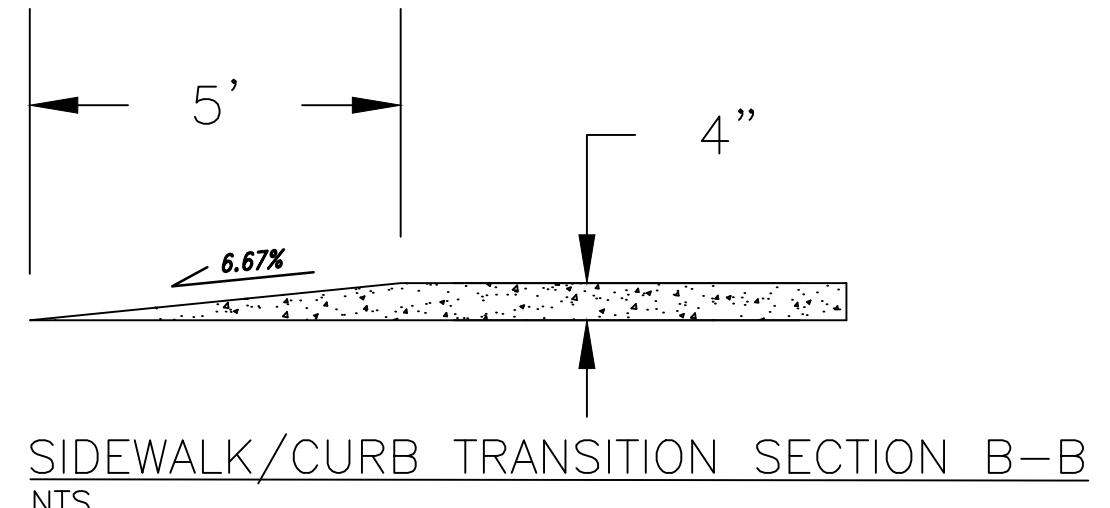
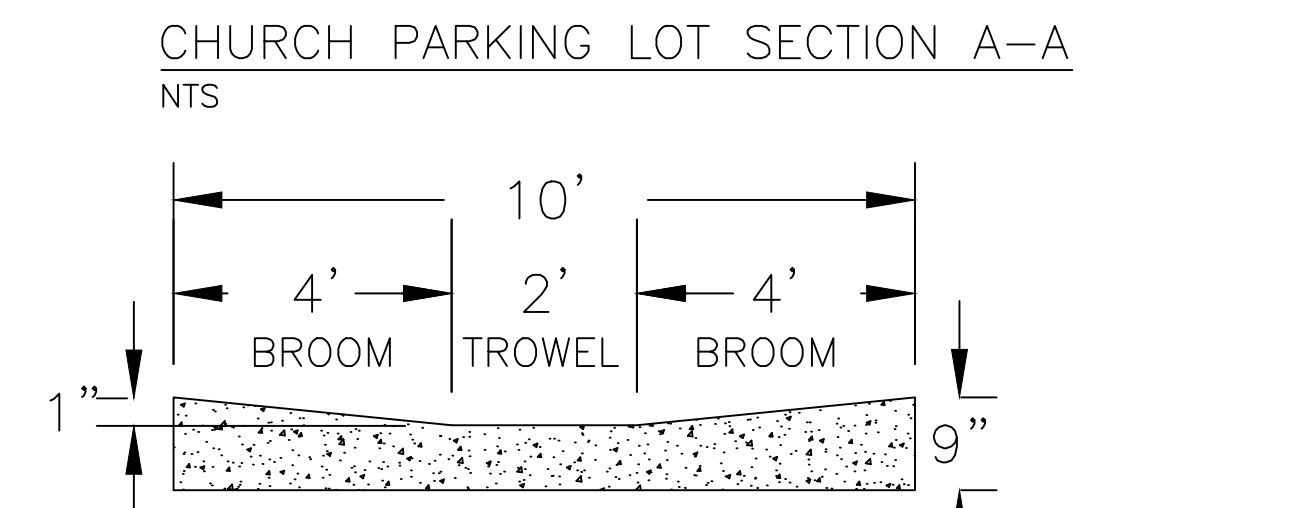
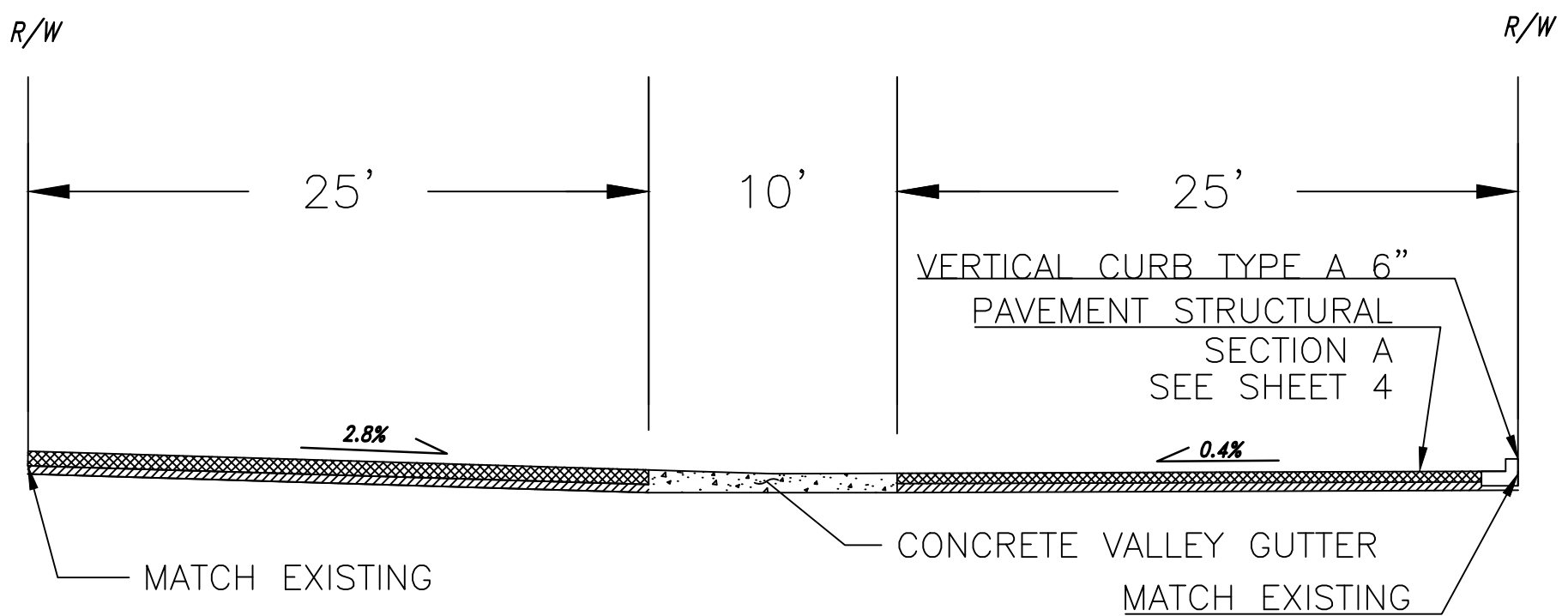
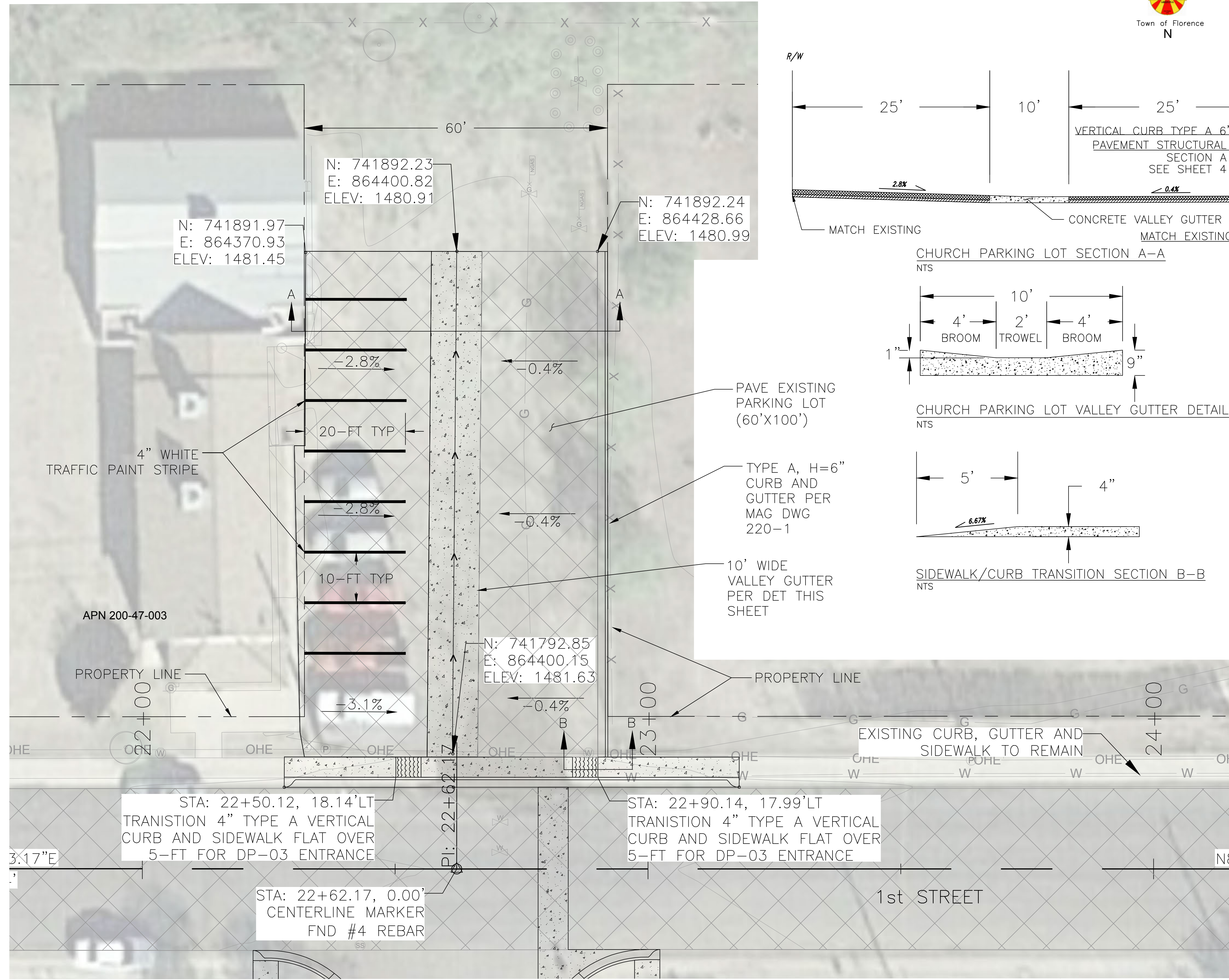
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NO.	DESCRIPTION	REV BY	CHK BY	DATE



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

CONSULTING ENGINEER
 DES: DR: CK: DATE:



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PHOENIX ST PARKING AREA
 TOWN OF FLORENCE, ARIZONA

1st STREET CHURCH PARKING LOT DETAIL

DR:	DES:	CK:	SHEET NO:	TOTAL SHEETS
EAH	CLL	ASF	13	32

DATE: 6/2017 DATE: 6/2017 DATE: 6/2017

SCALE: 1" = 20' H.

M:\TRN\16-100-112-01\2-DISCIPLINES\EXHIBITS\T-60 CHURCH PARKING LOT EXHIBIT2.DWG, 1/26/2017

1st STREET PAVEMENT
 FLORENCE - PINAL CO.
 MAIN STREET TO HIGHWAY 79

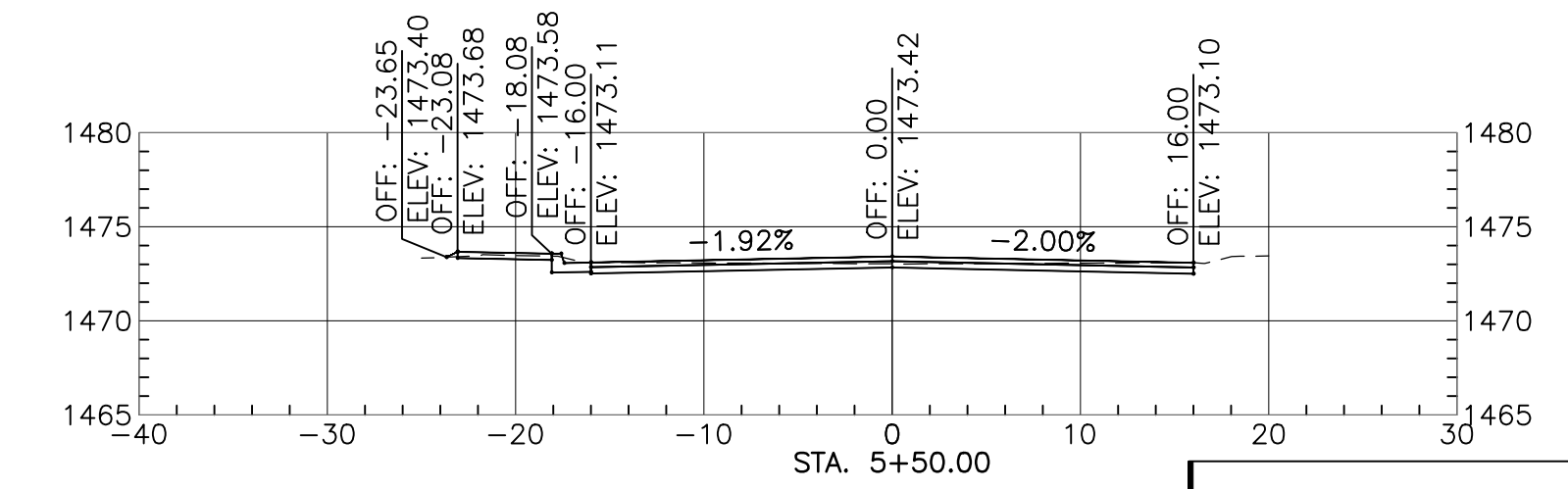
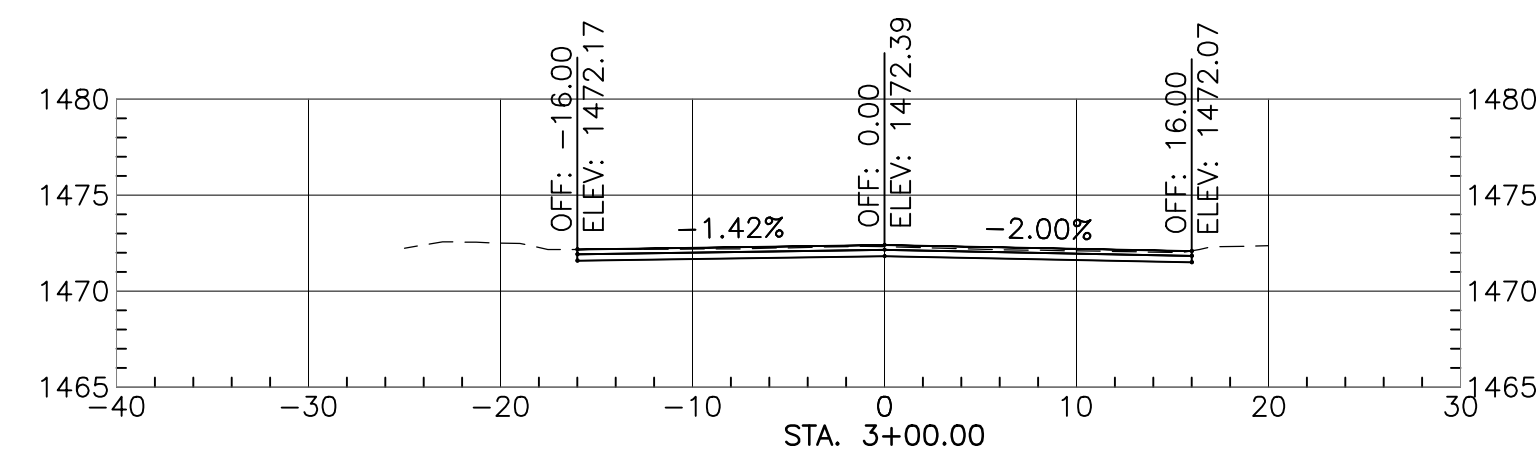
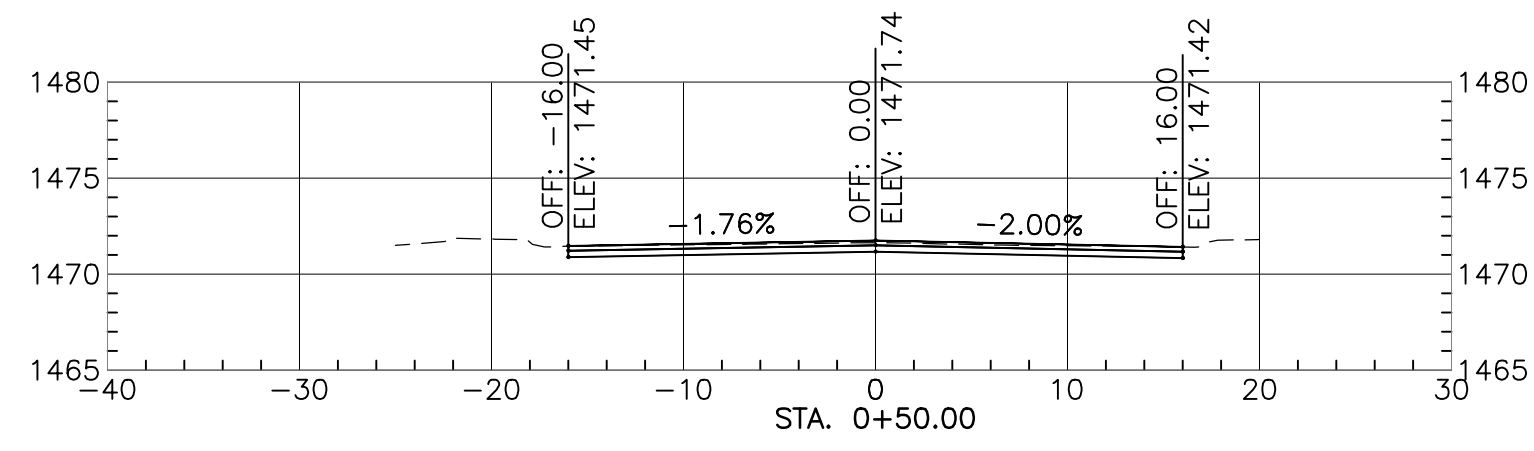
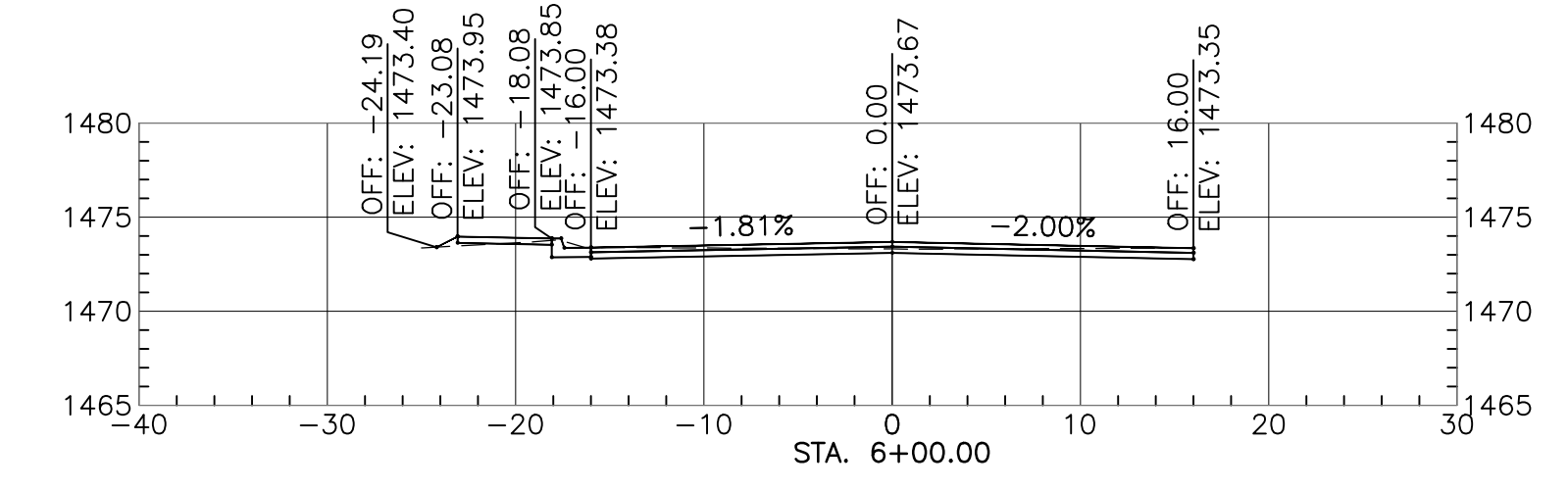
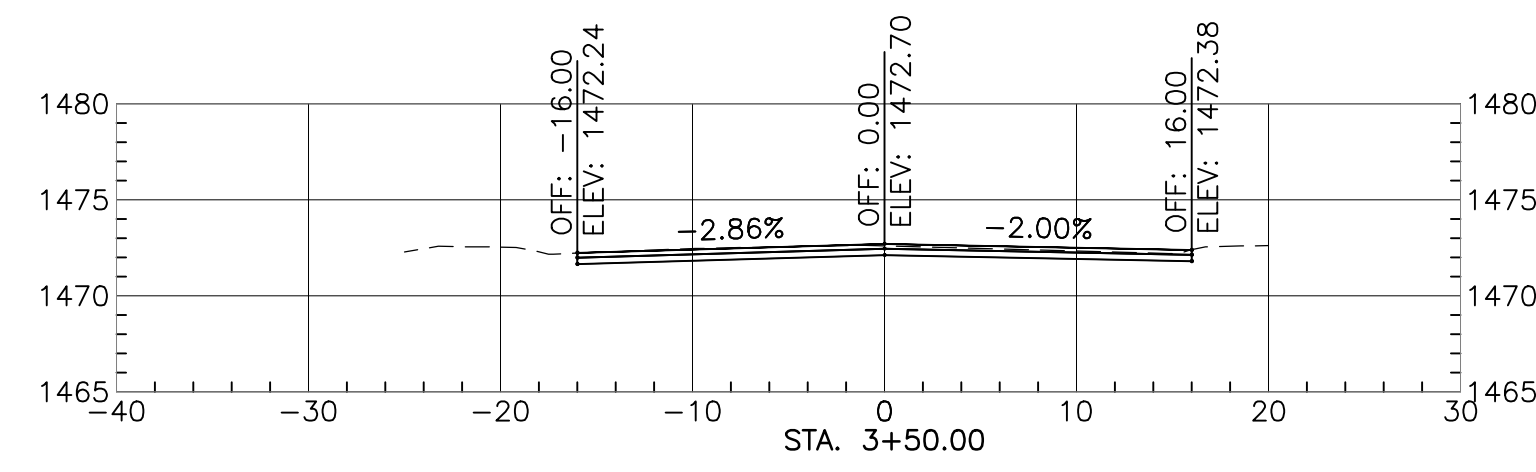
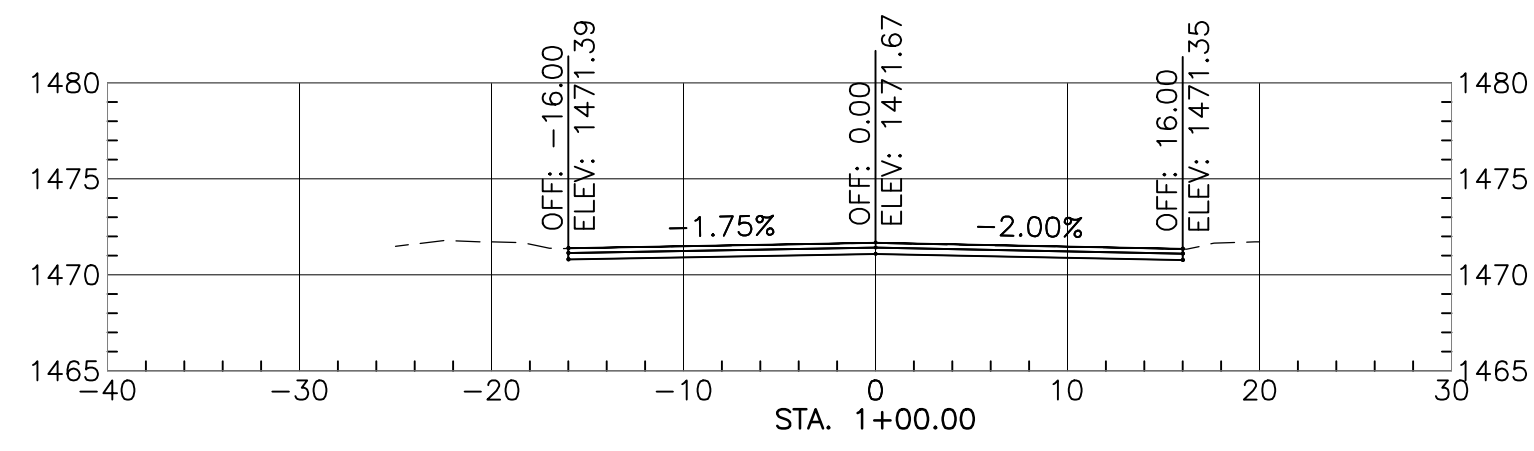
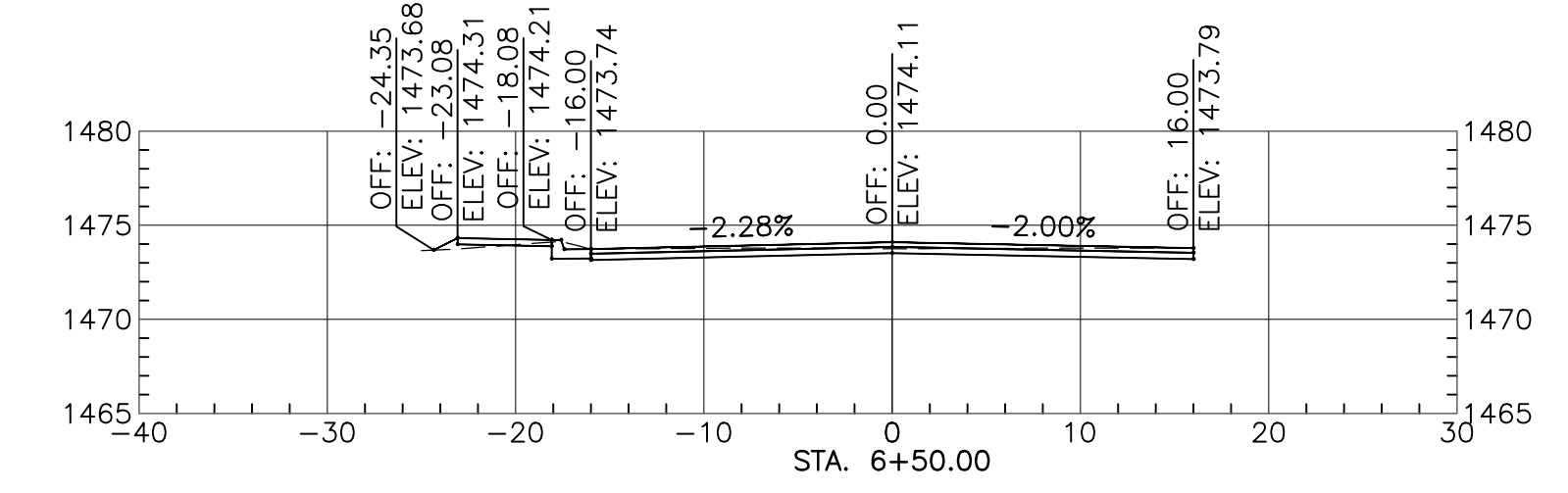
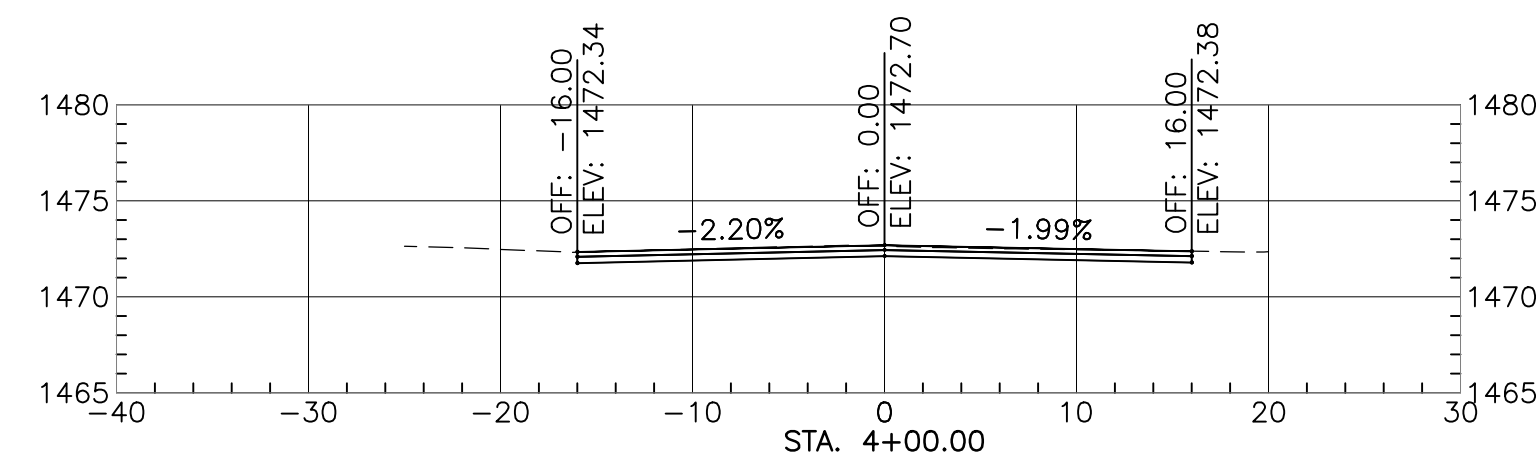
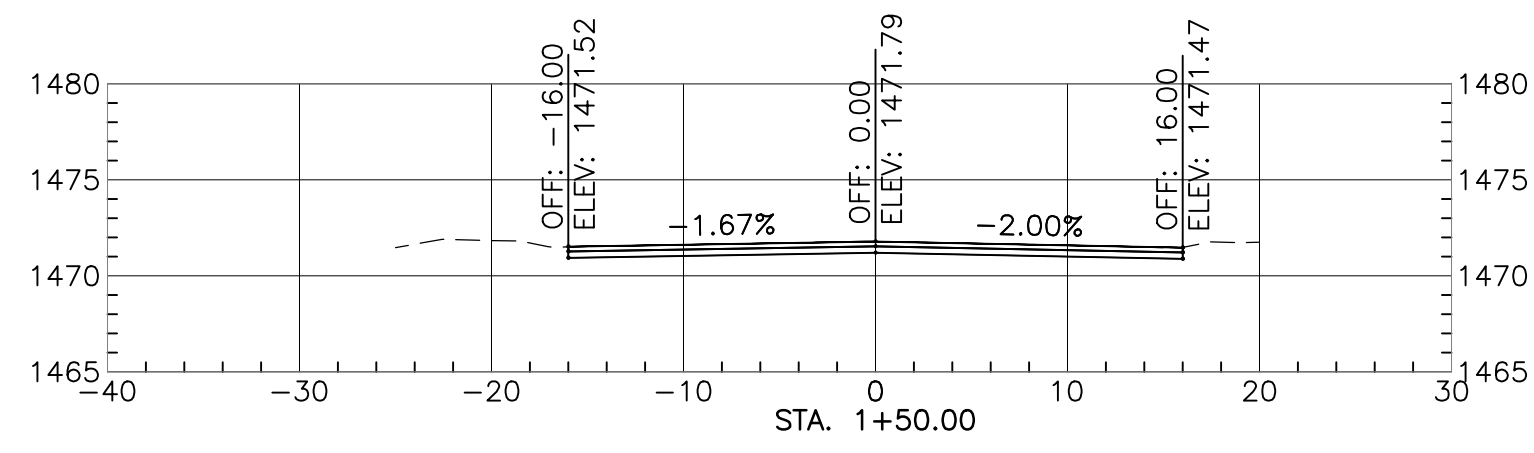
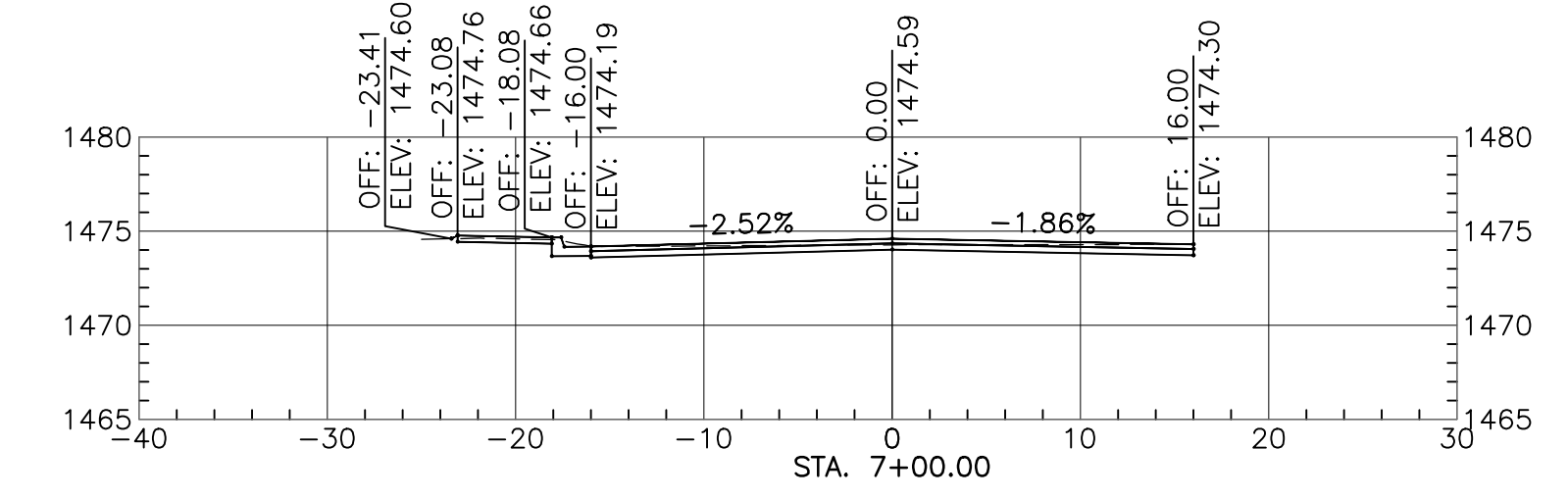
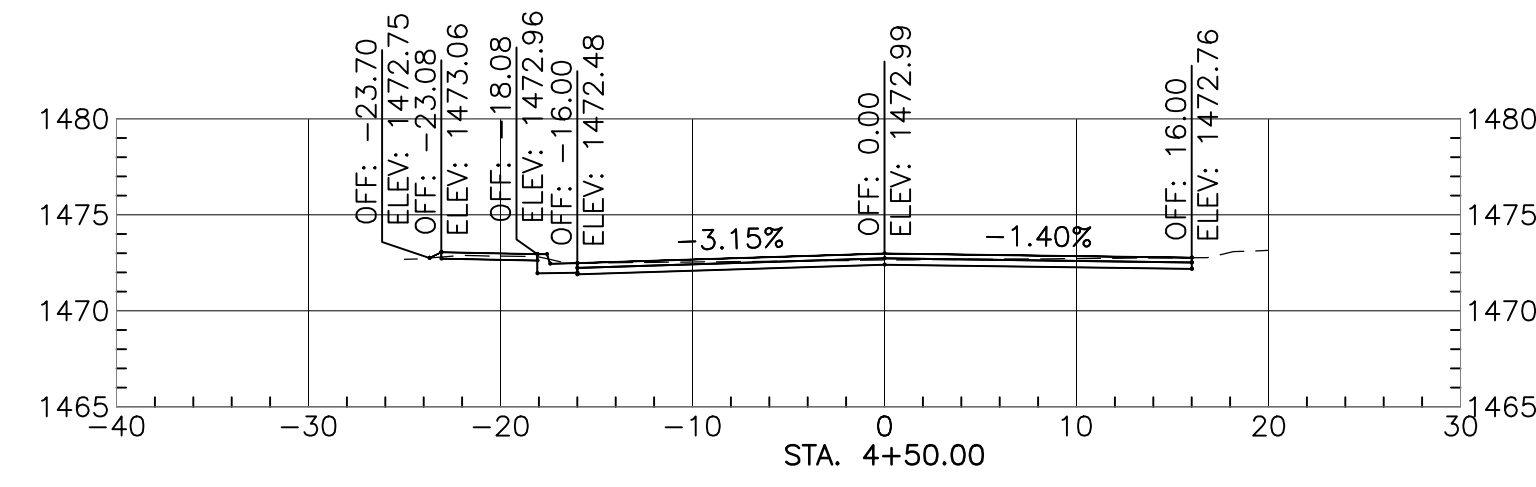
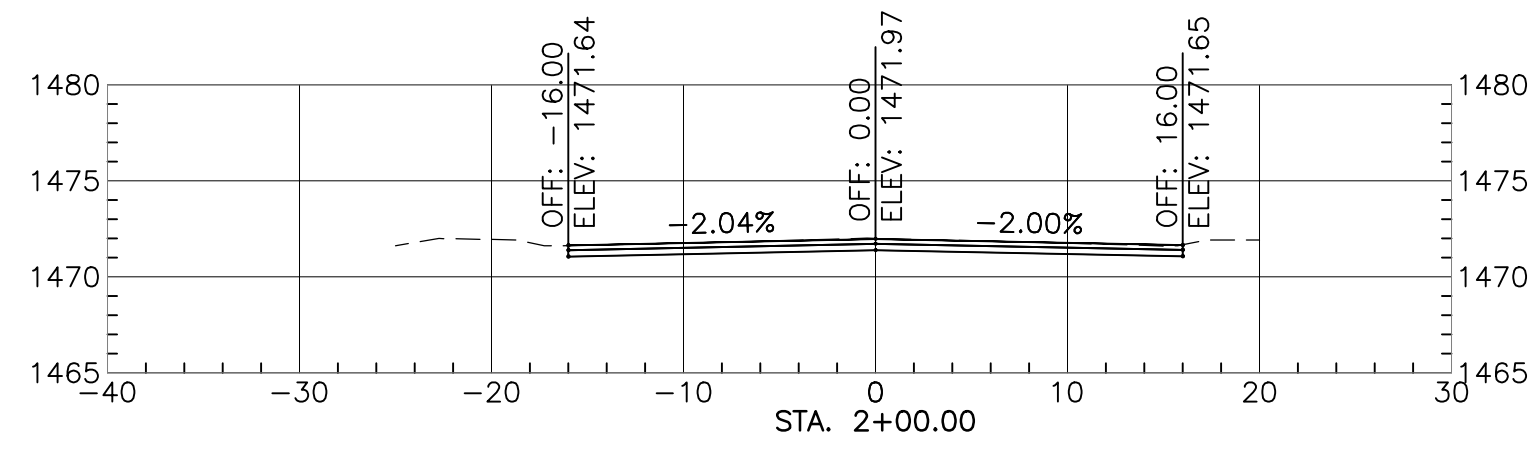
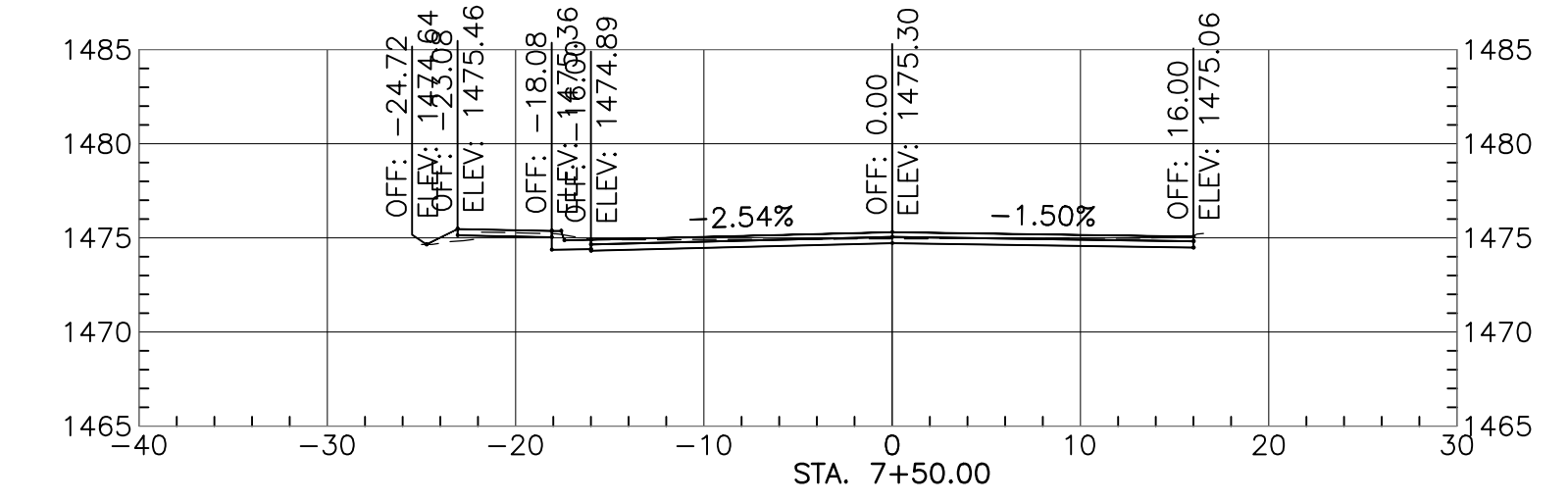
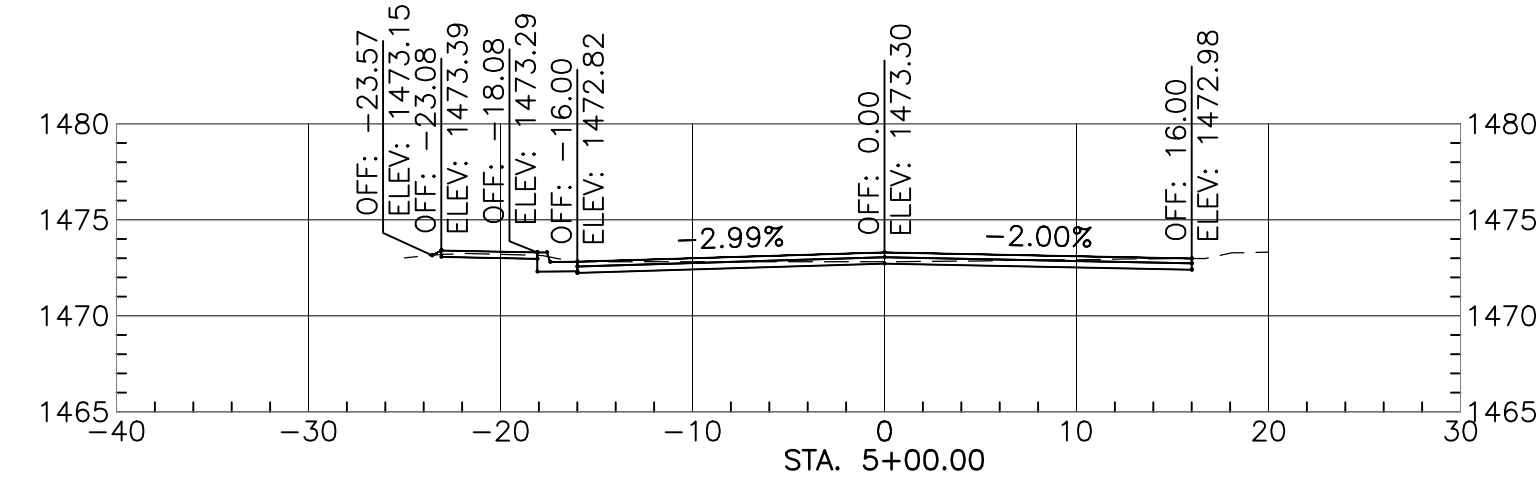
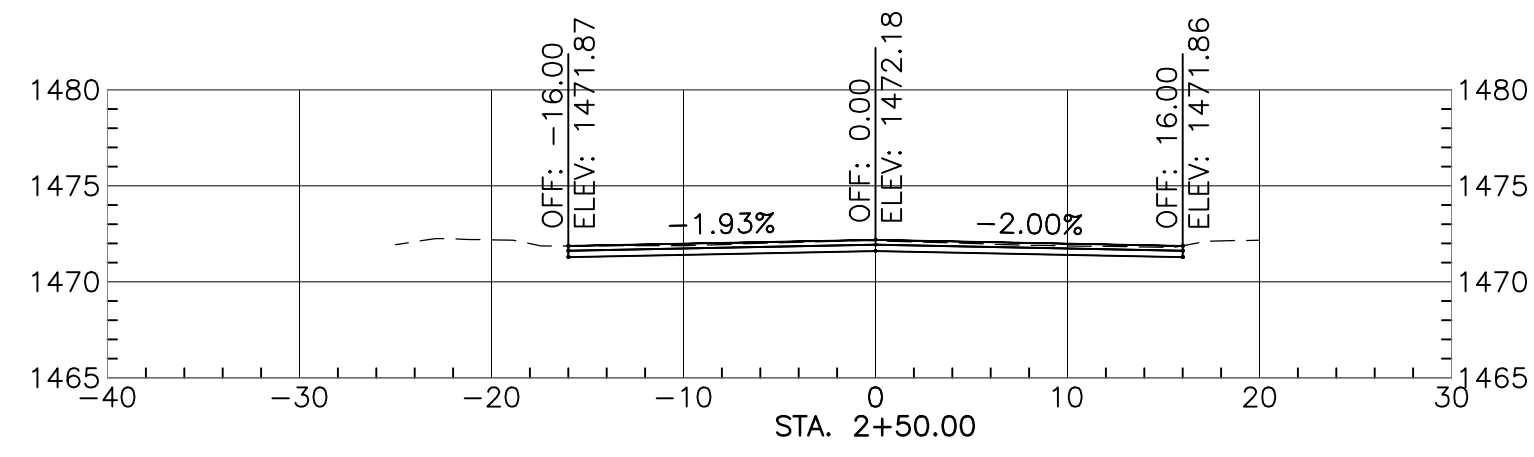


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			
CONSULTING ENGINEER				
DES	DR:	CK:	DATE:	

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION



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LEGEND AND NOTES
 TOWN OF FLORENCE, ARIZONA

1st STREET CROSS SECTIONS - (1)

DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	14	32
SCALE: N/A				

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1st STREET PAVEMENT
 FLORENCE - PINAL CO.
 MAIN STREET TO HIGHWAY 79

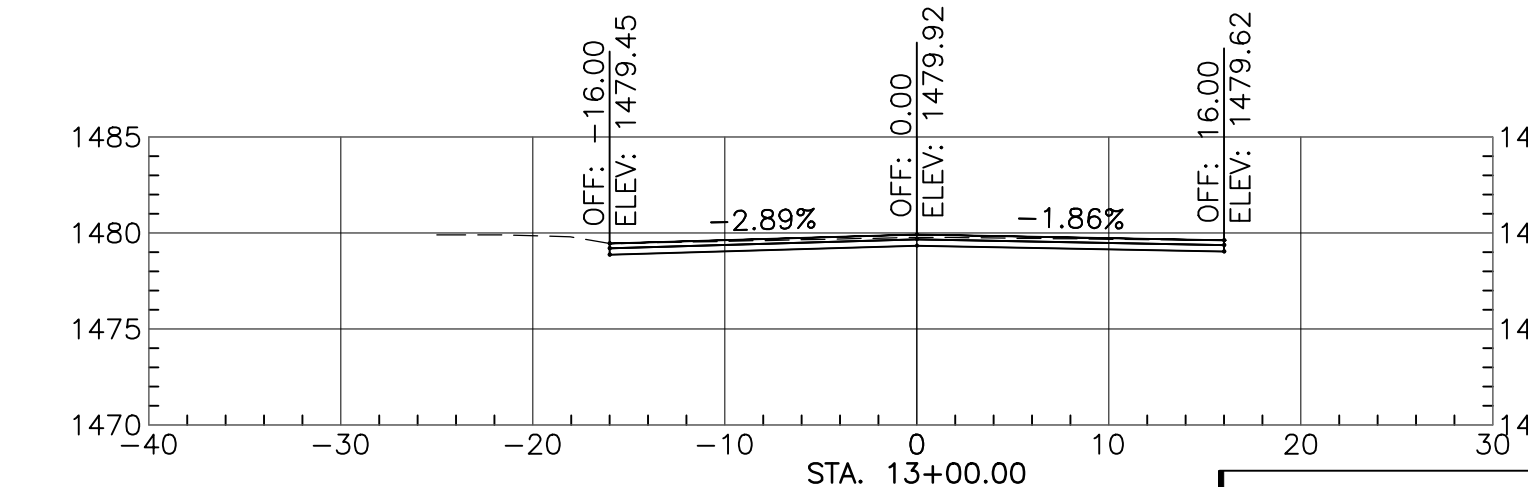
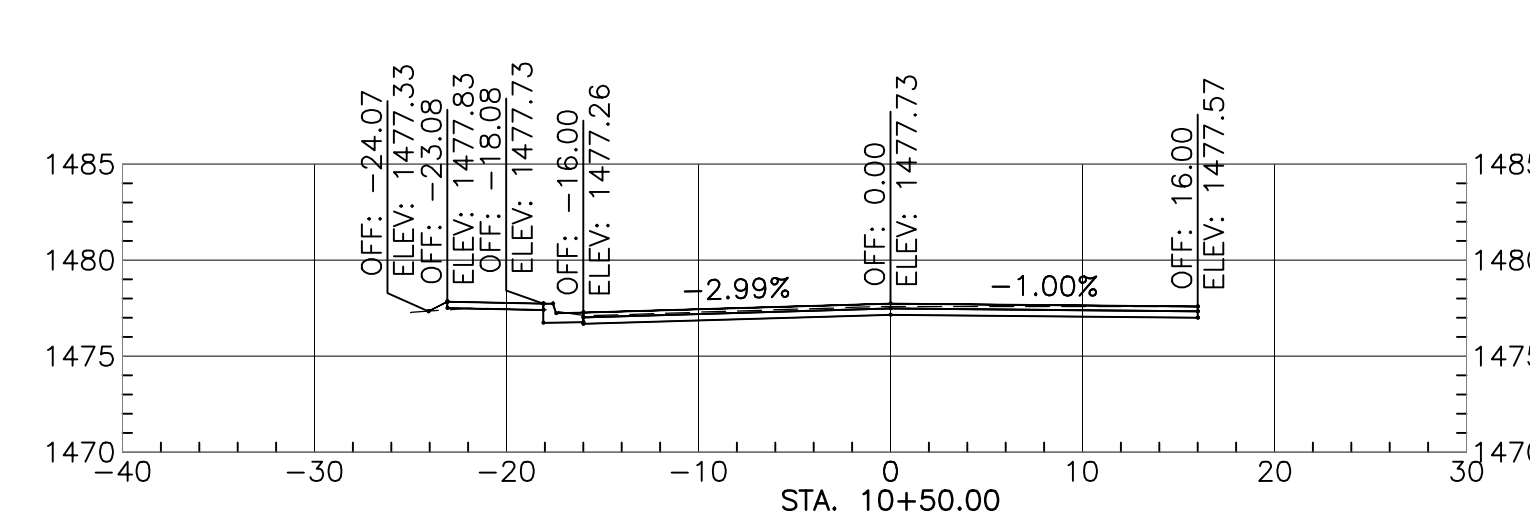
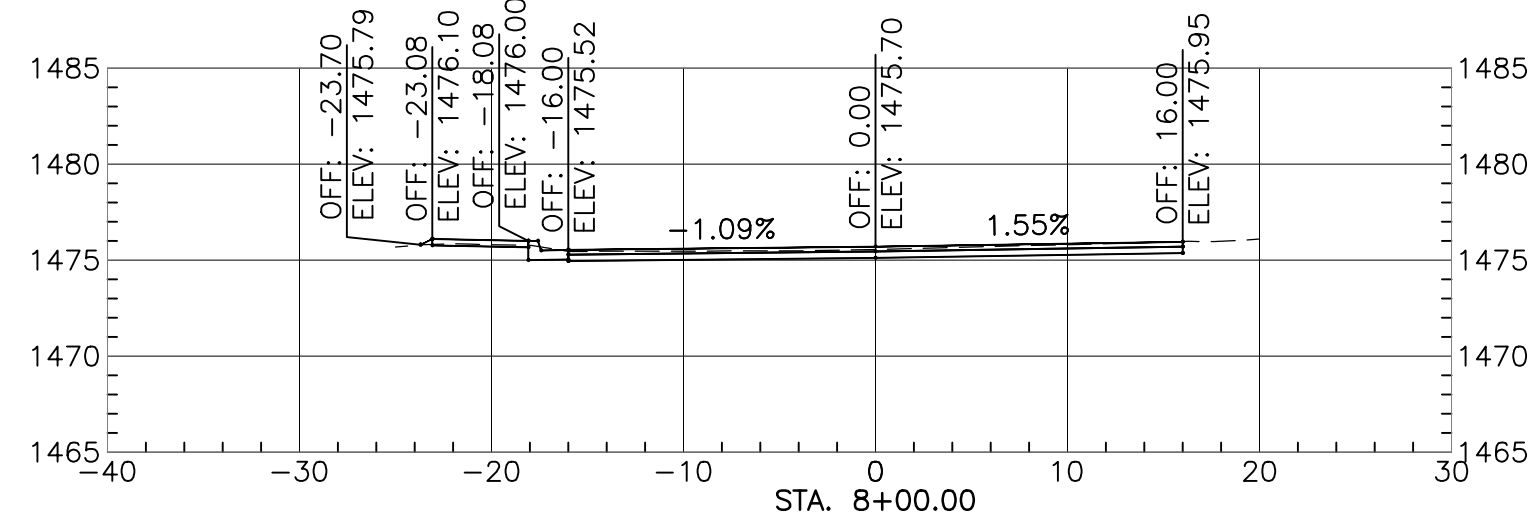
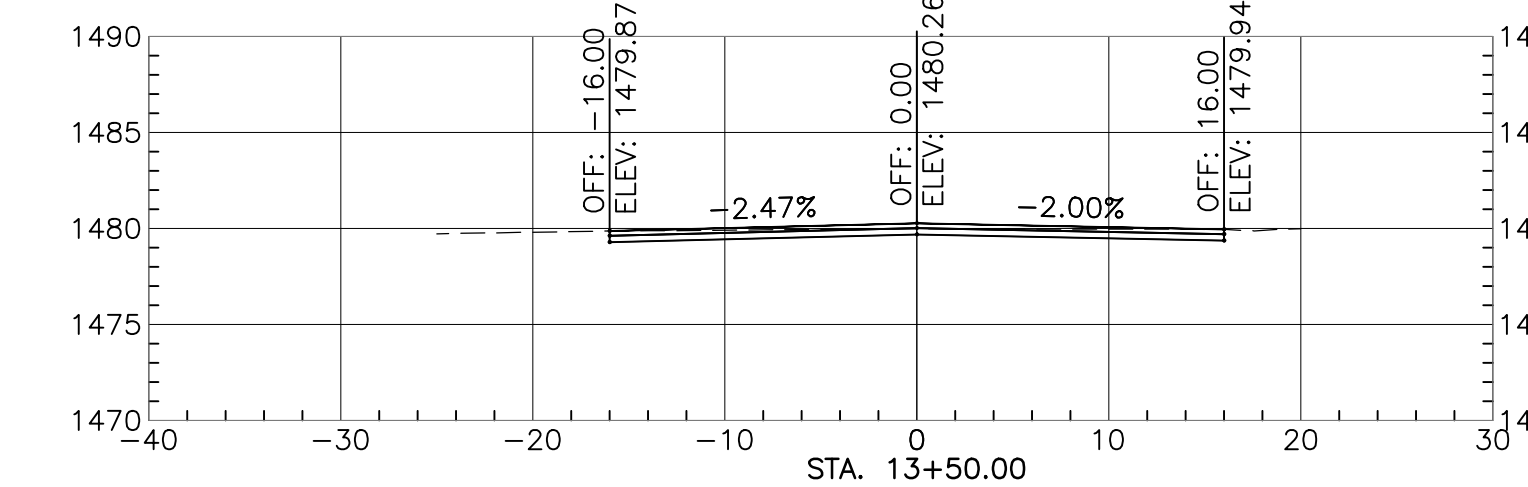
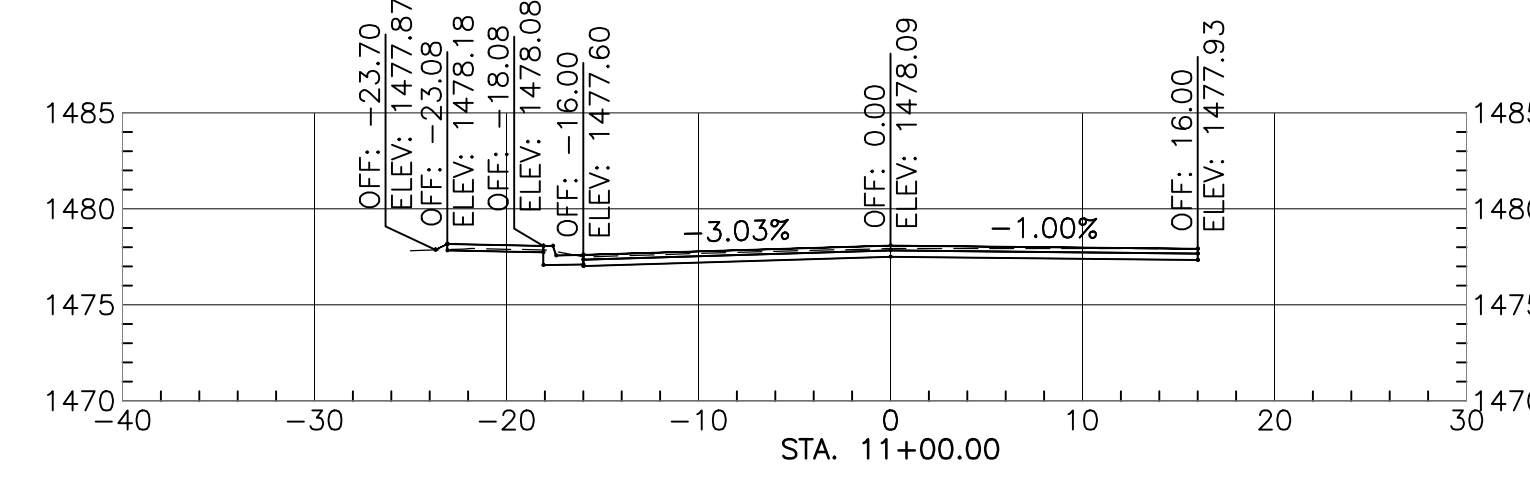
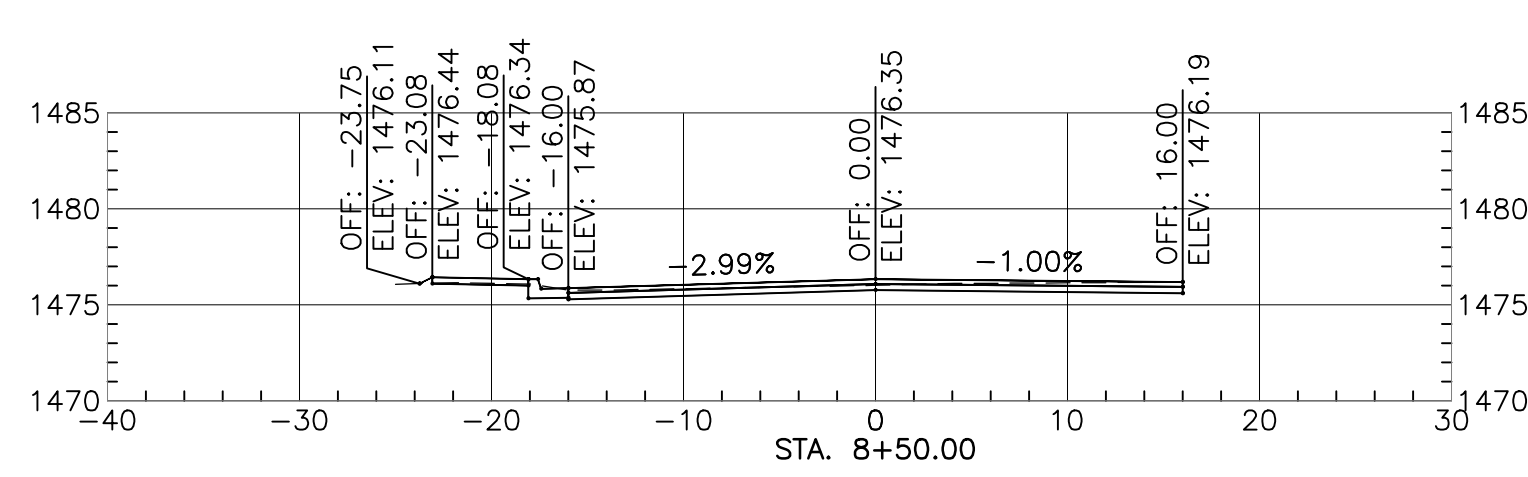
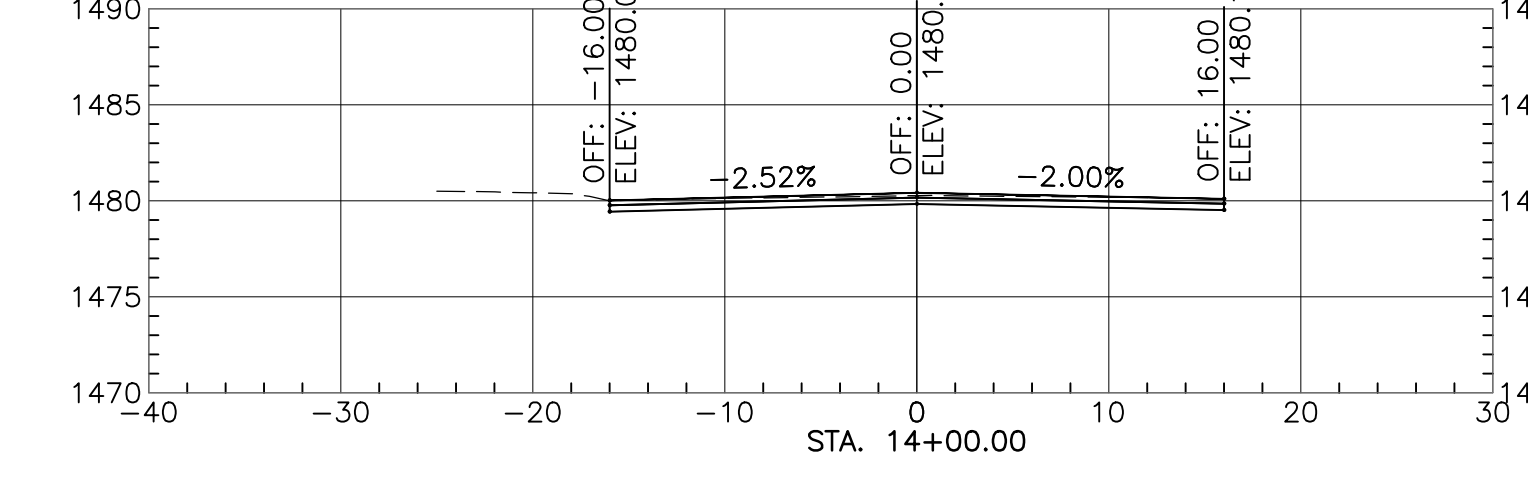
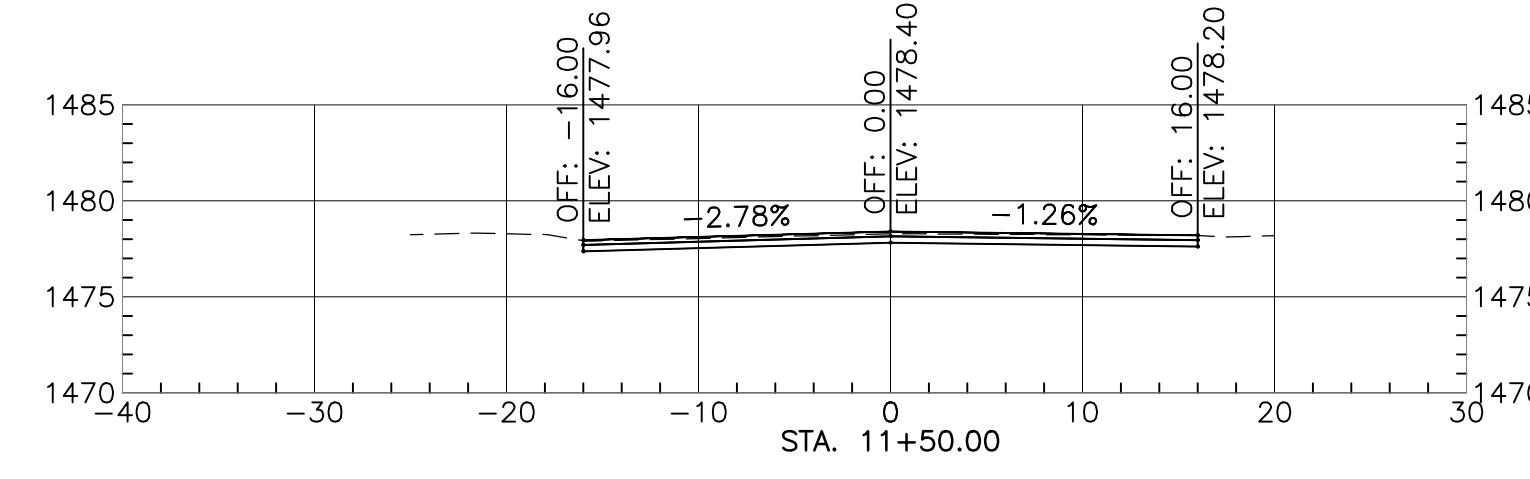
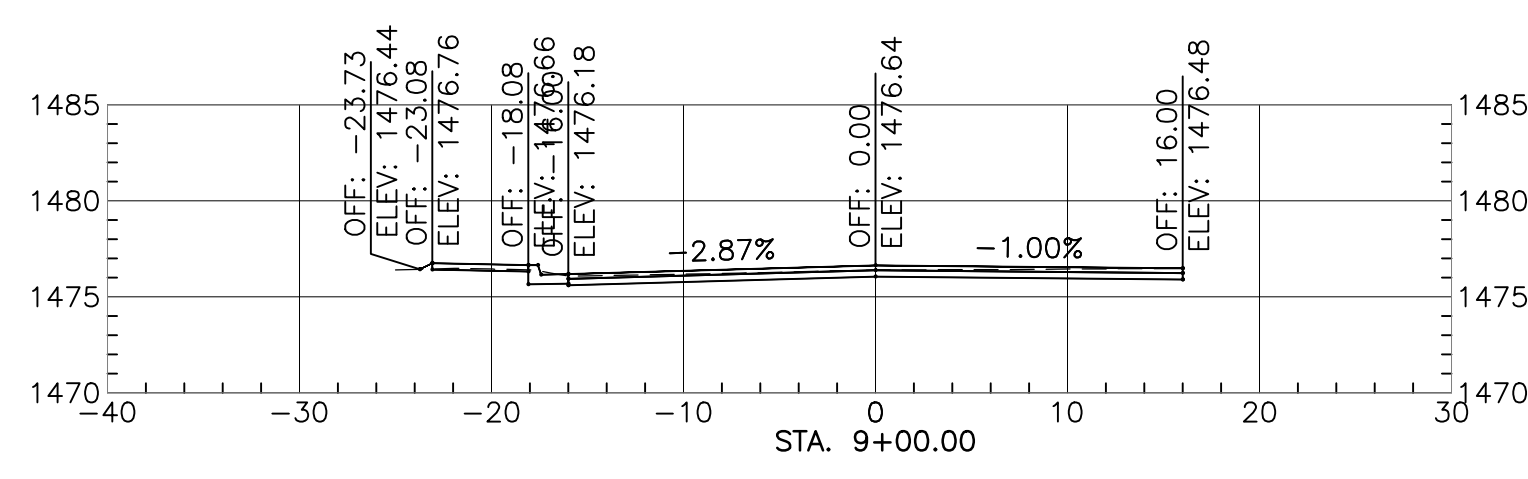
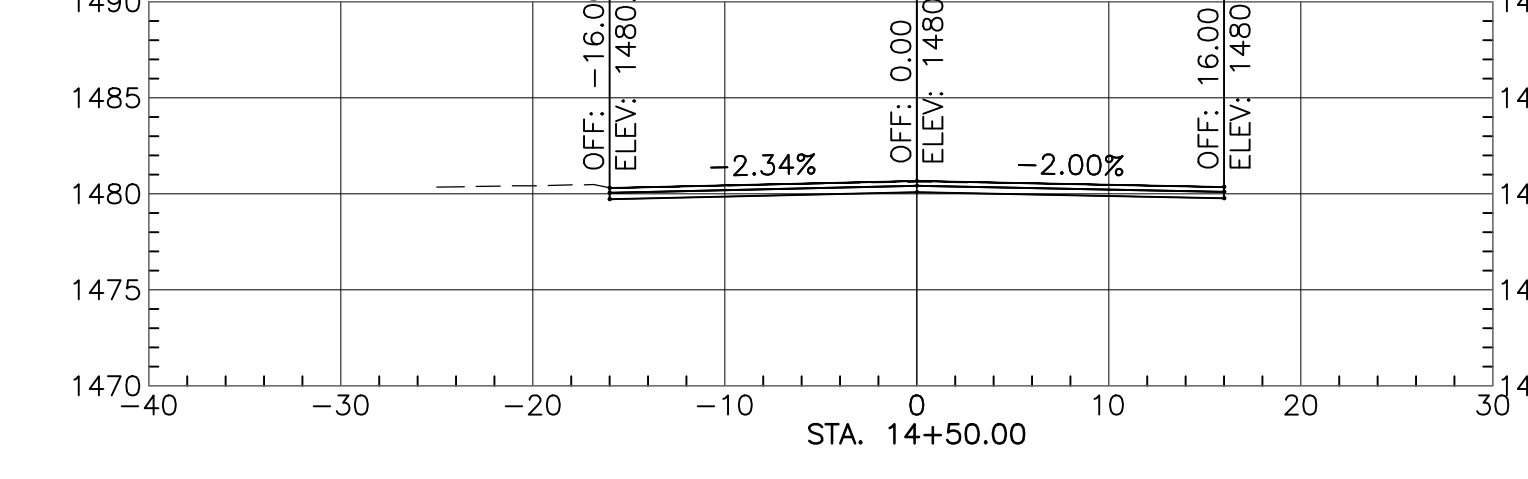
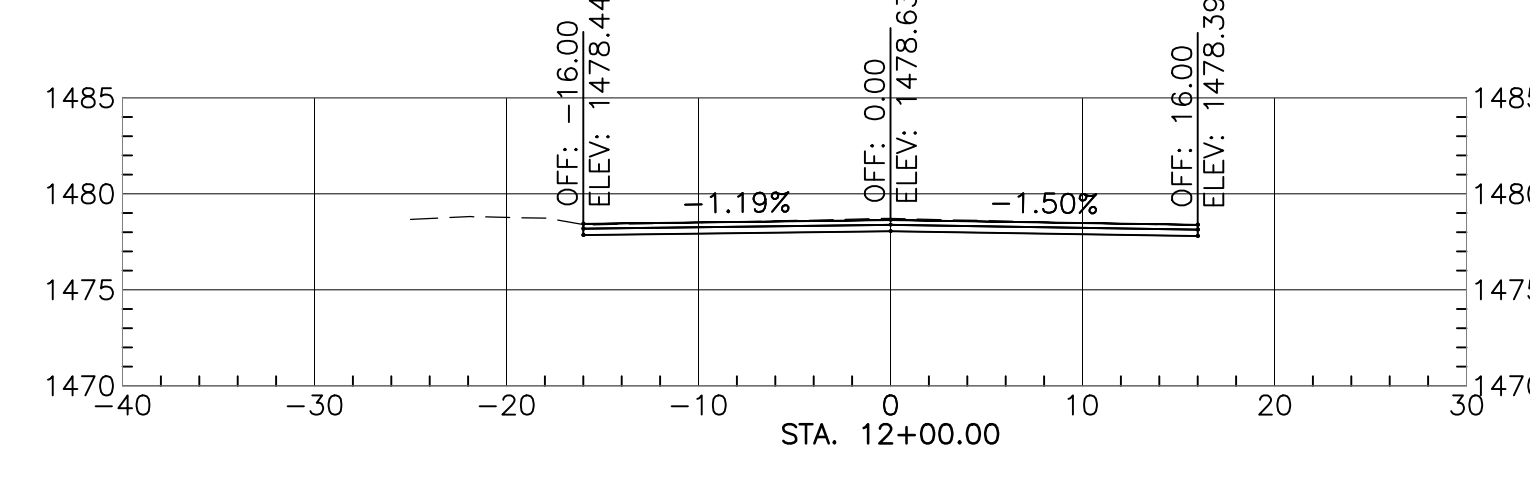
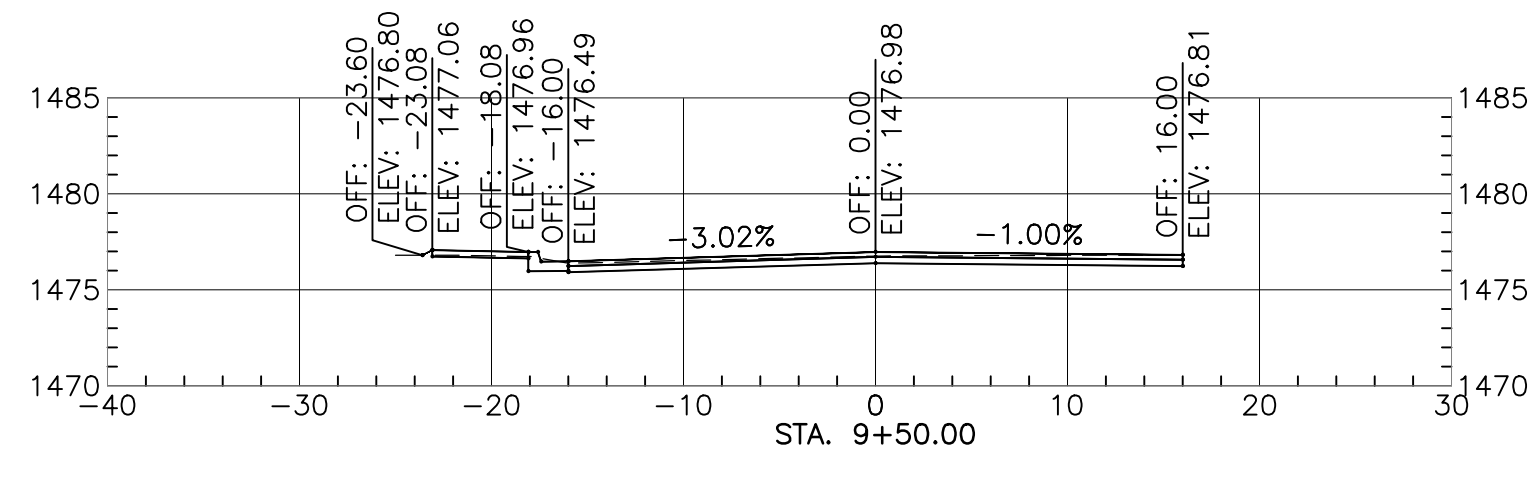
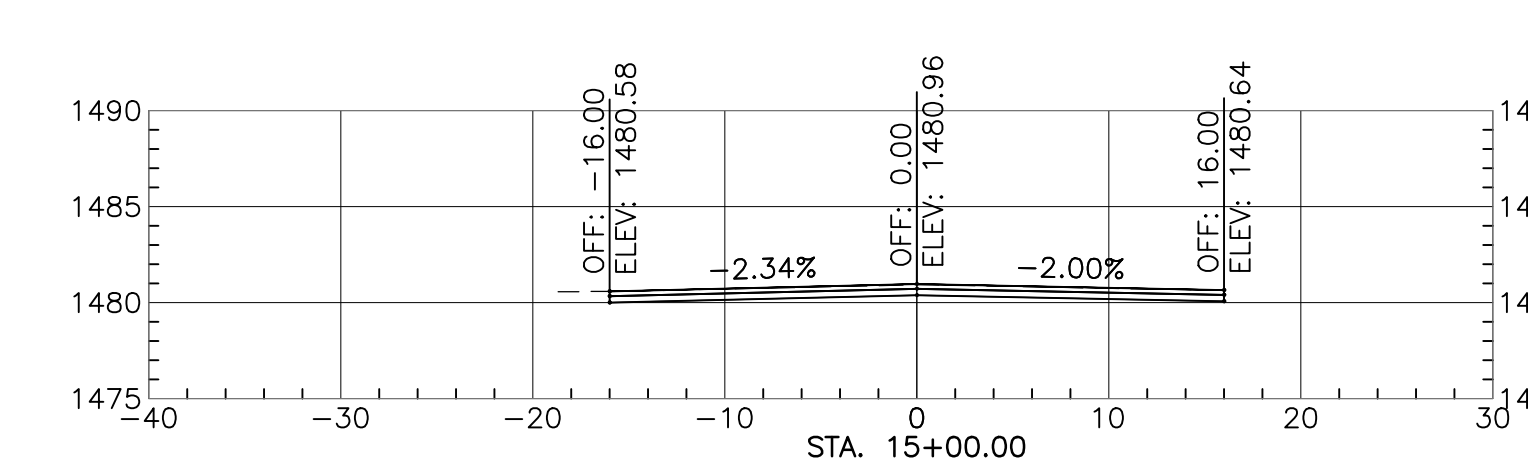
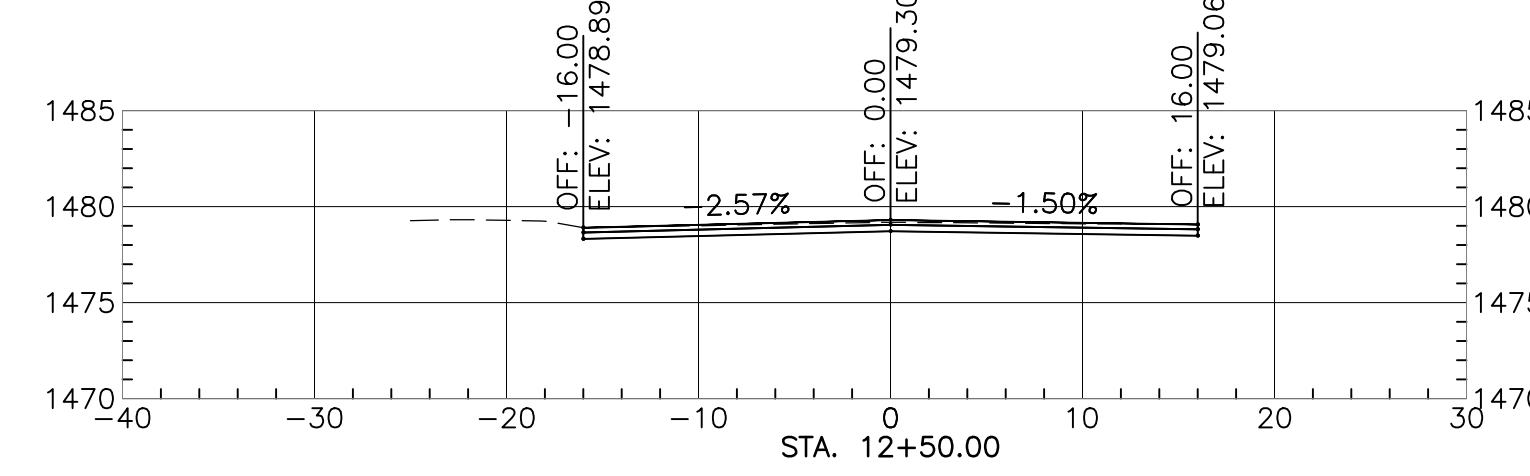
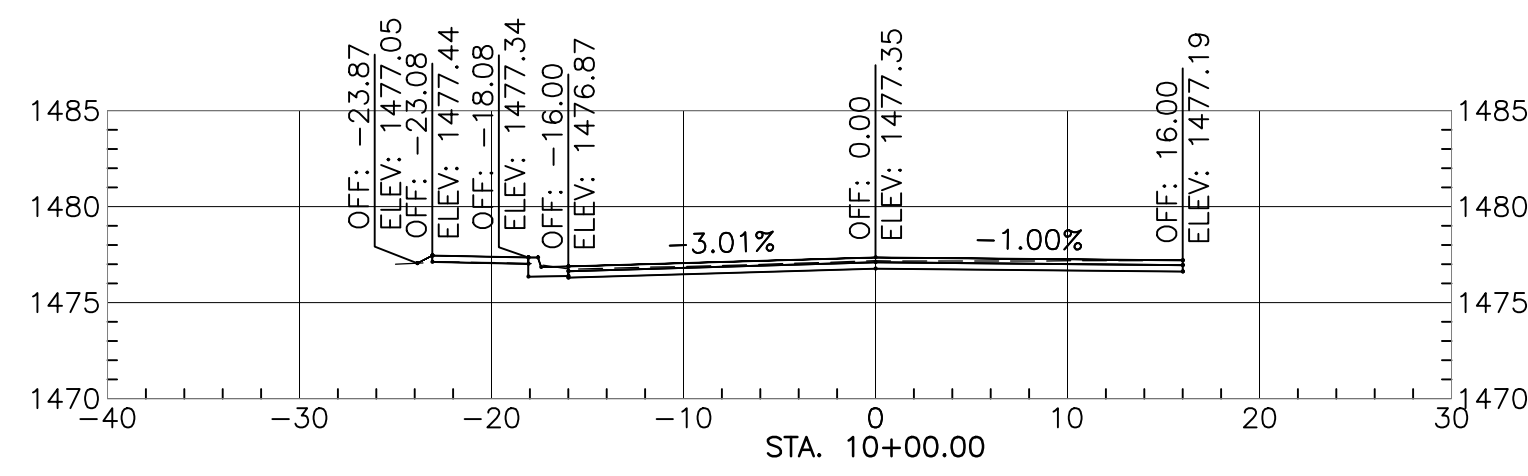


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			
CONSULTING ENGINEER				
DES	DR:	CK:	DATE:	

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION



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 (602) 283-2701

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LEGEND AND NOTES
 TOWN OF FLORENCE, ARIZONA

1st STREET CROSS SECTIONS - (2)

DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	15	32
SCALE: N/A				

M:\TRN\16-100-112-01_2_DISCIPLINES_REFERENCES\1ST STREET DESIGN.DWG, 1/26/2017

1st STREET PAVEMENT
 FLORENCE – PINAL CO.
 MAIN STREET TO HIGHWAY 79

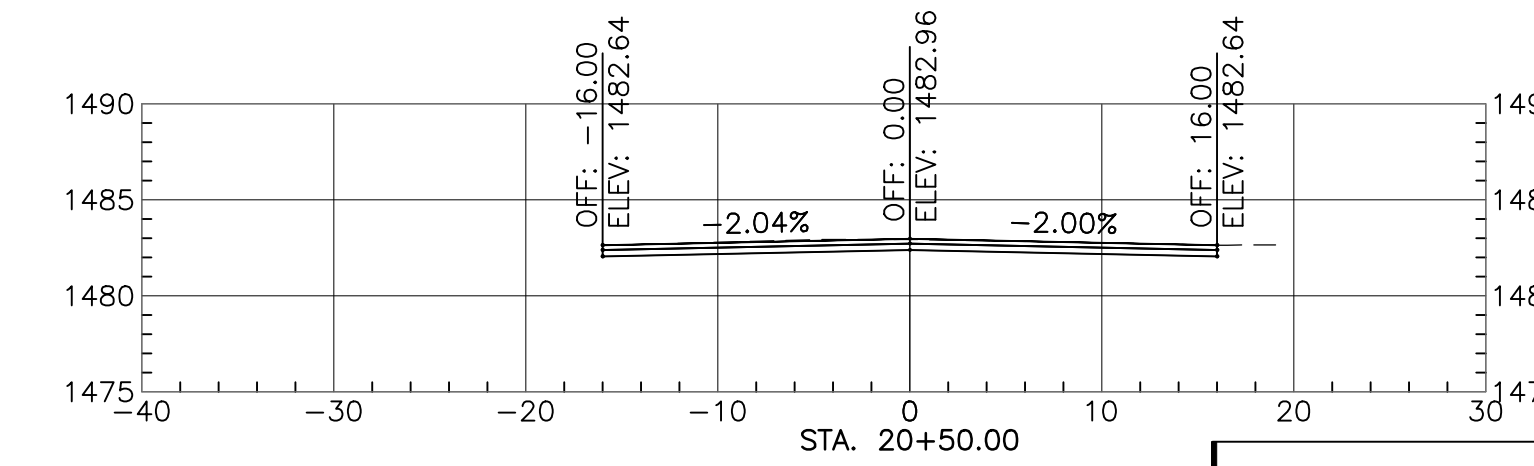
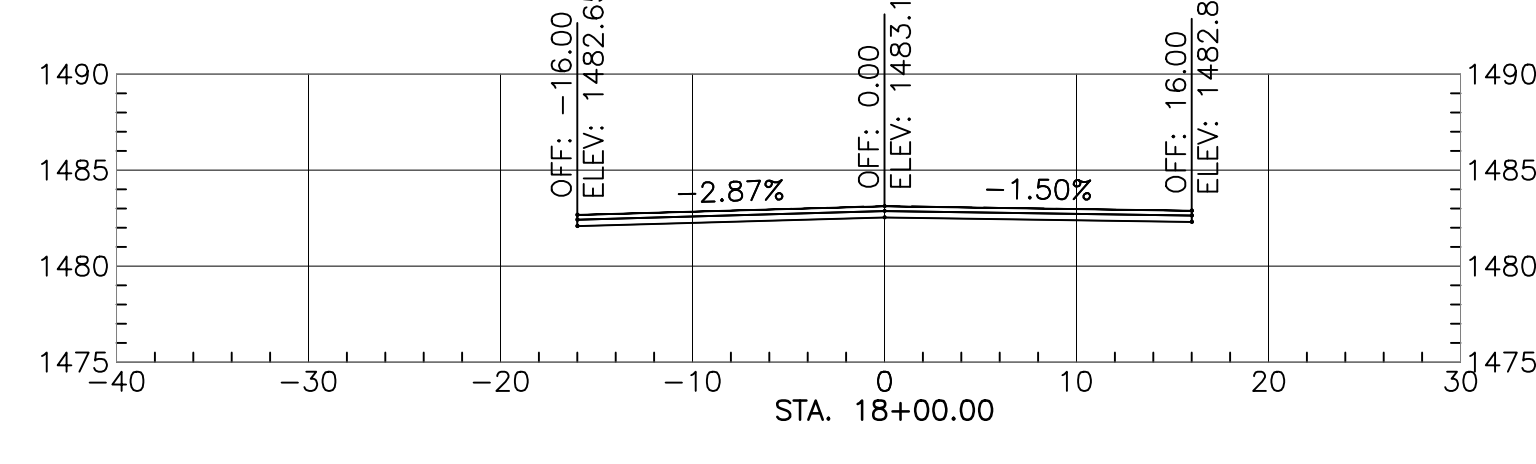
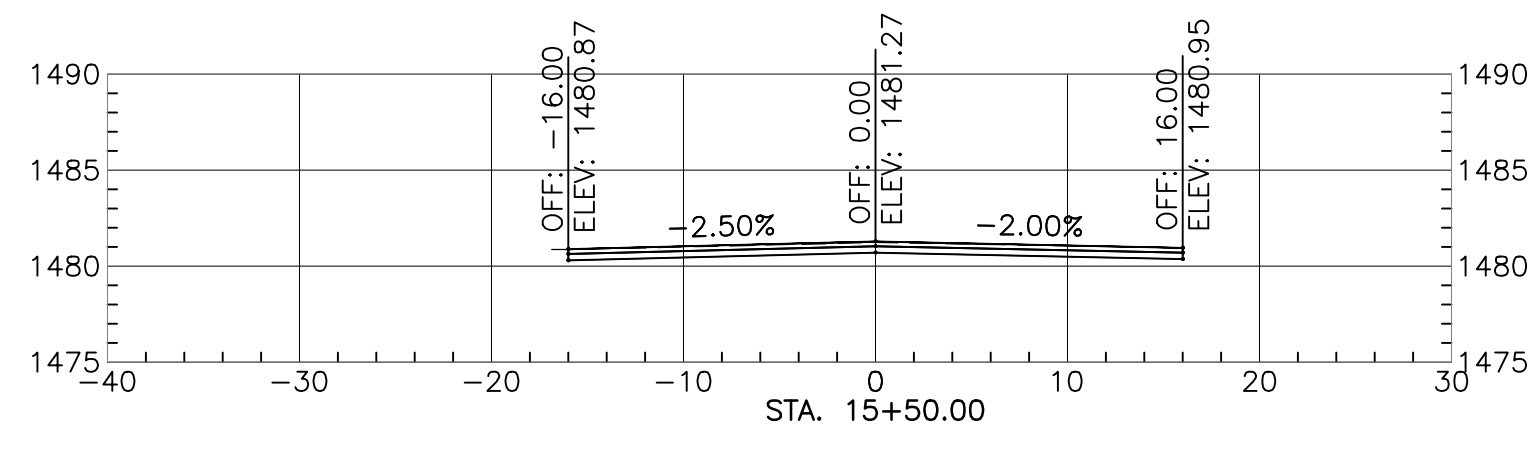
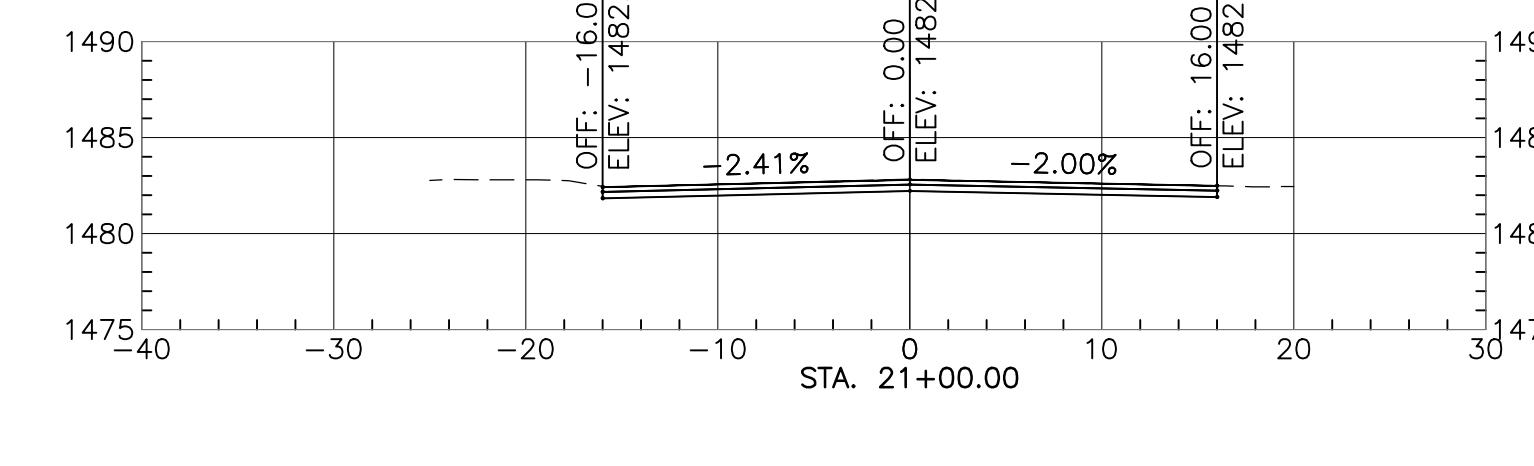
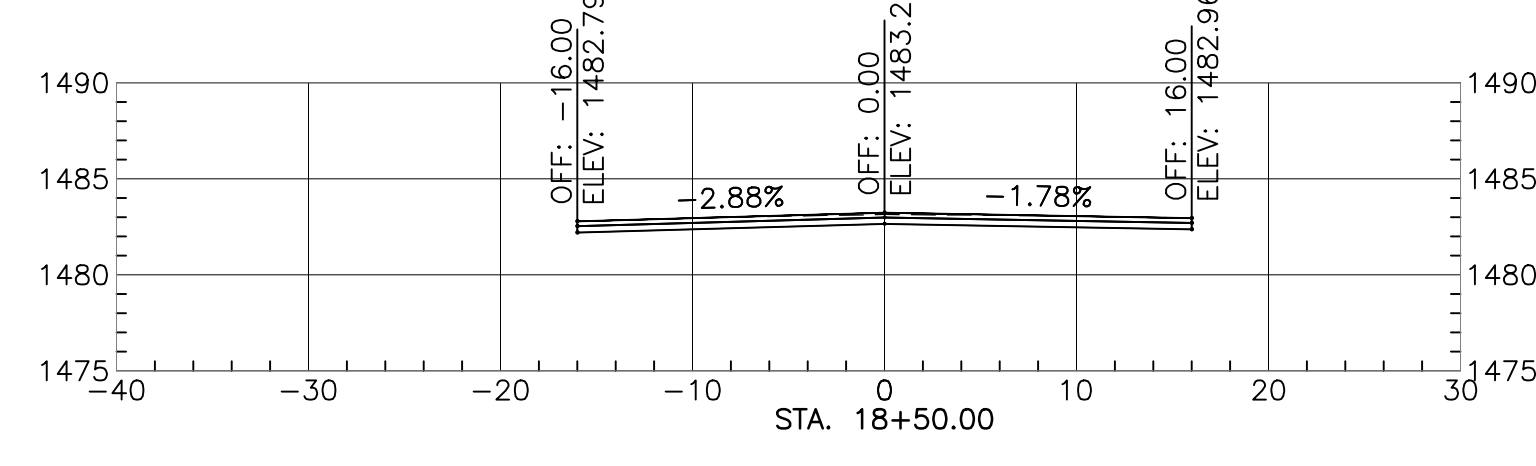
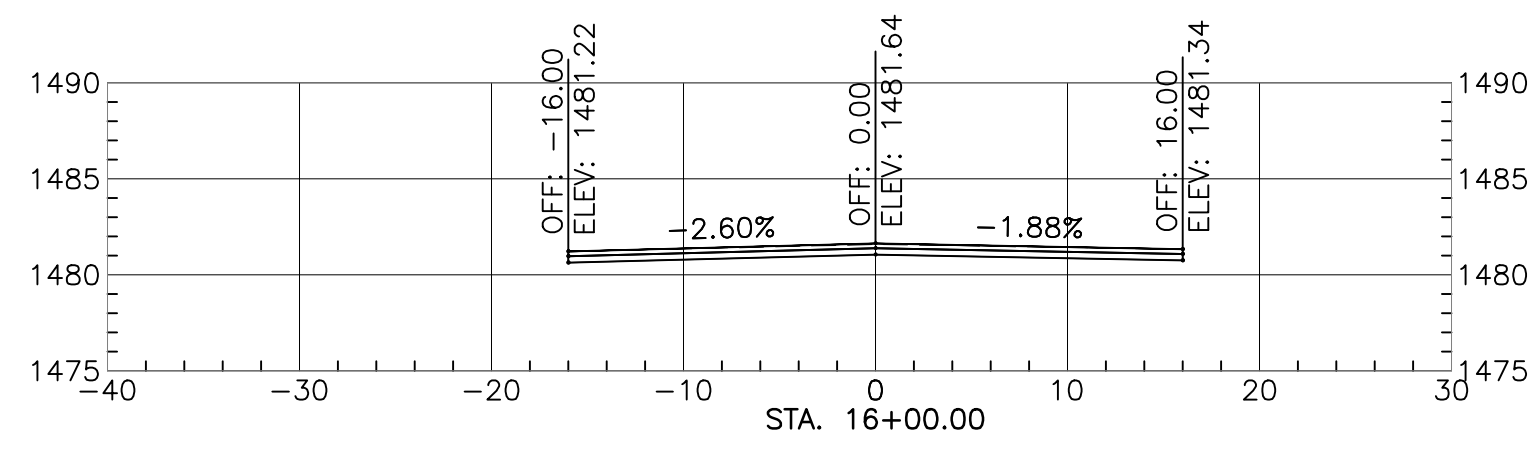
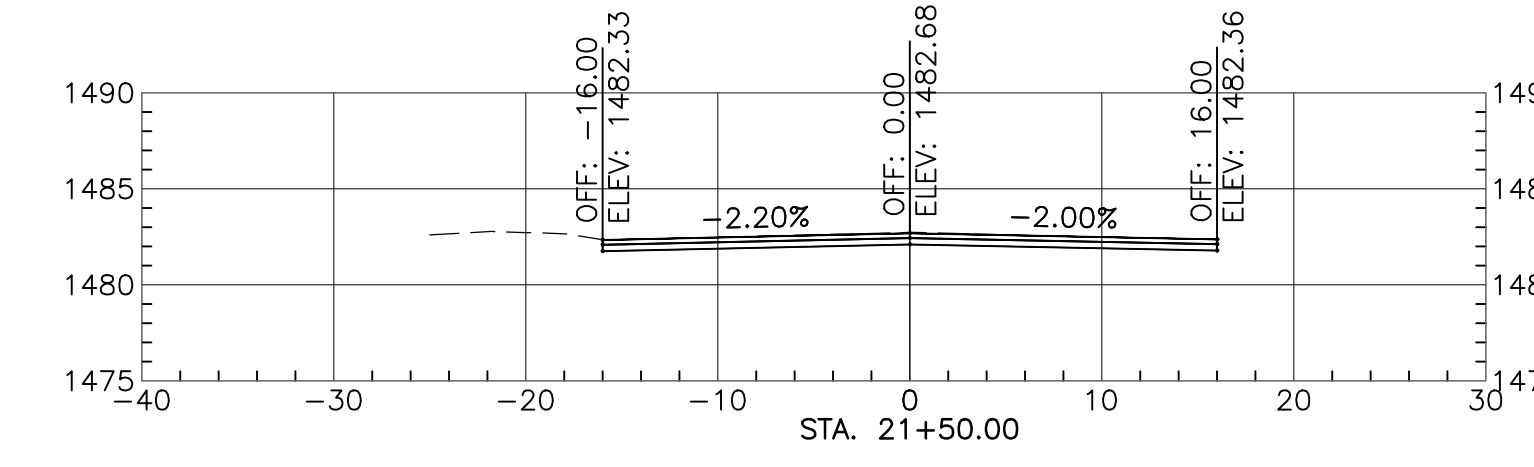
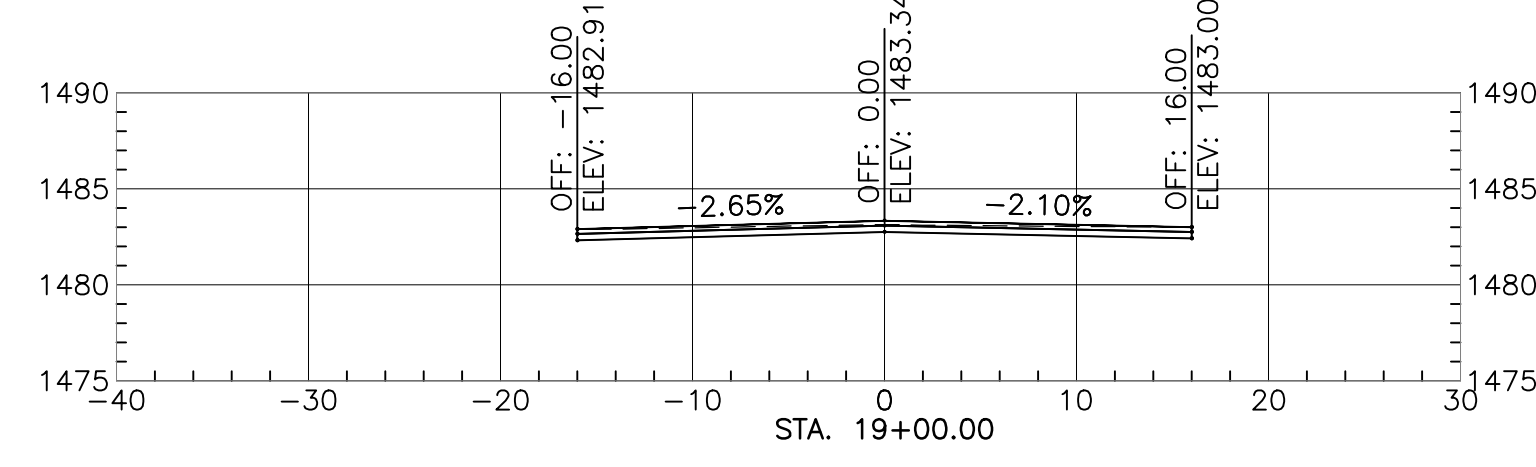
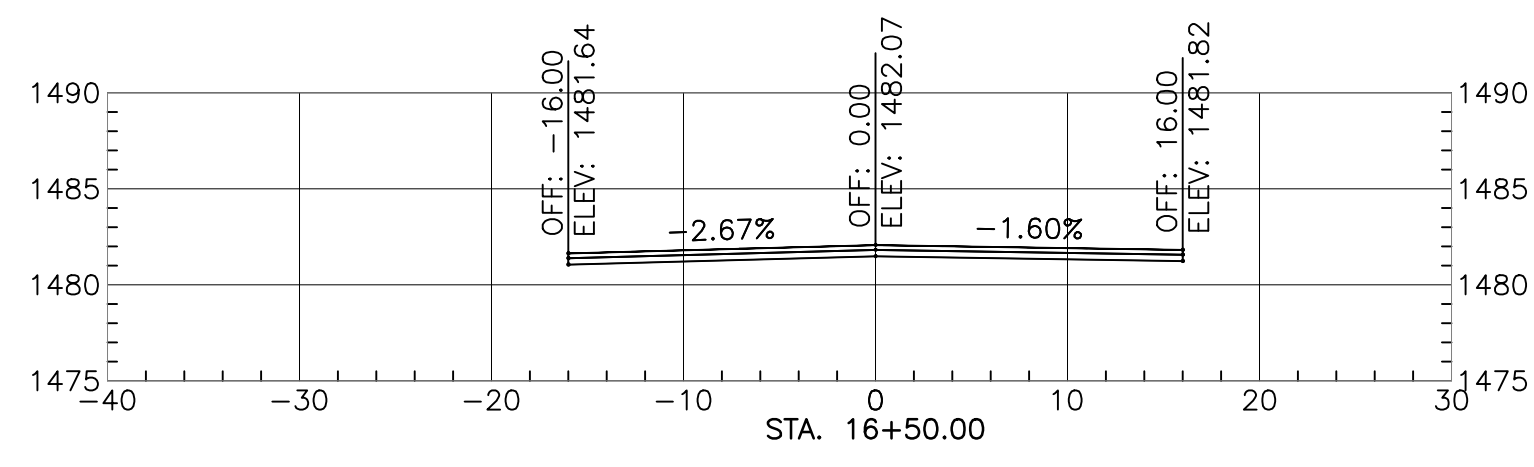
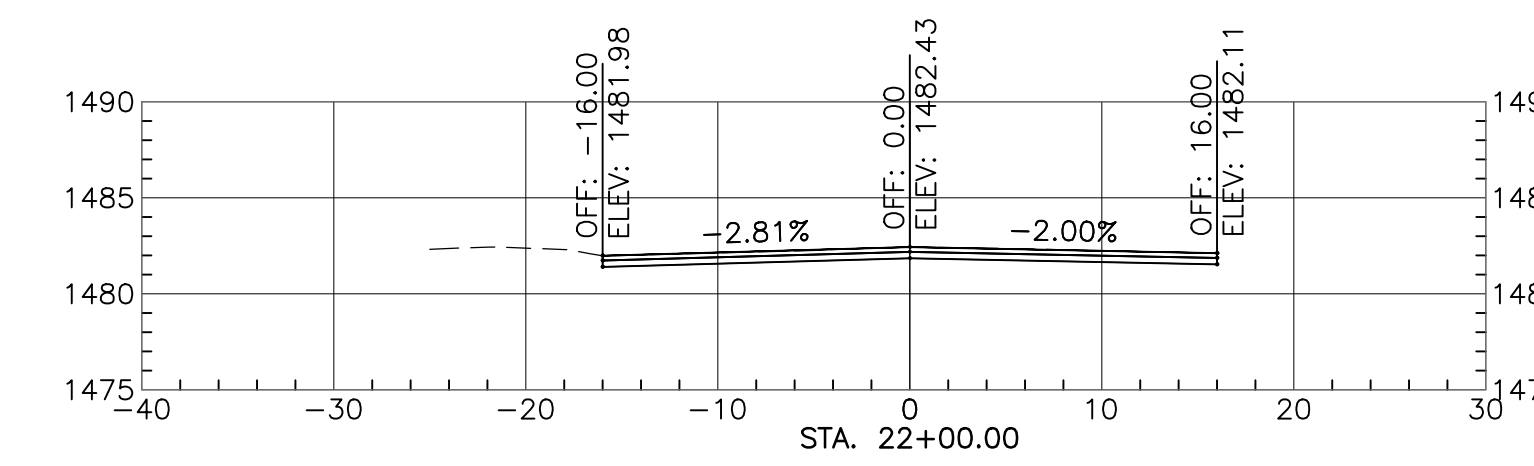
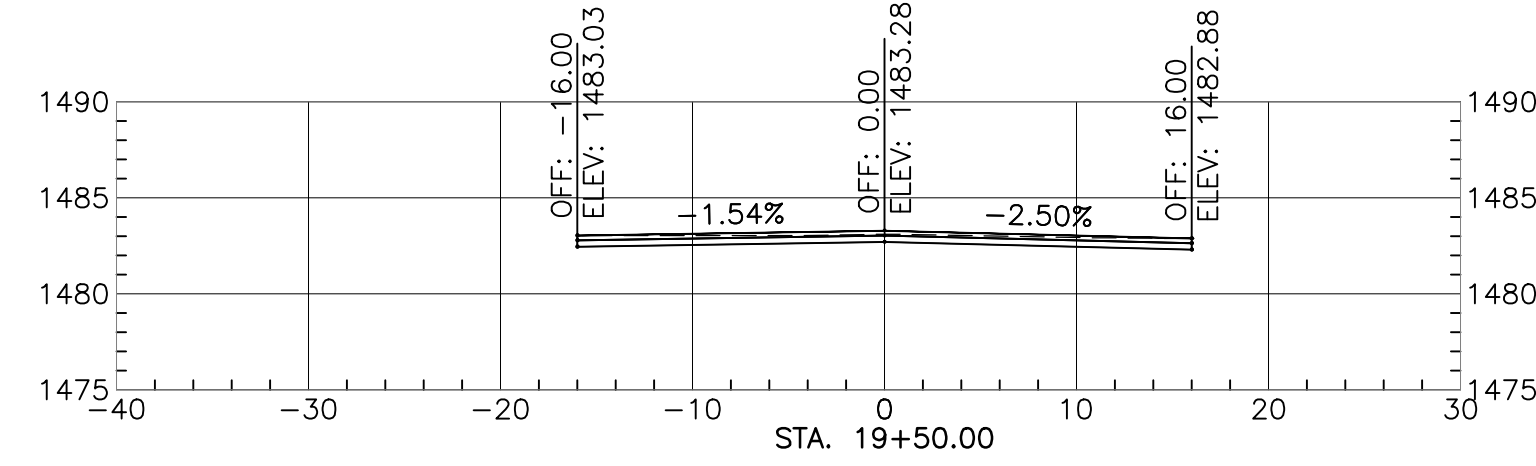
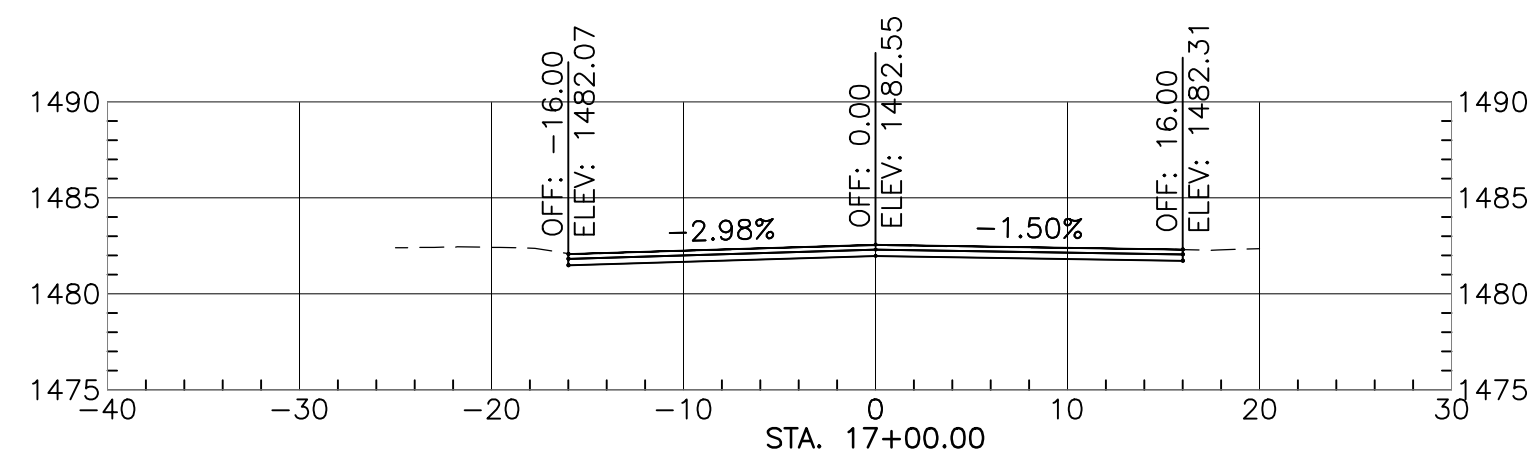
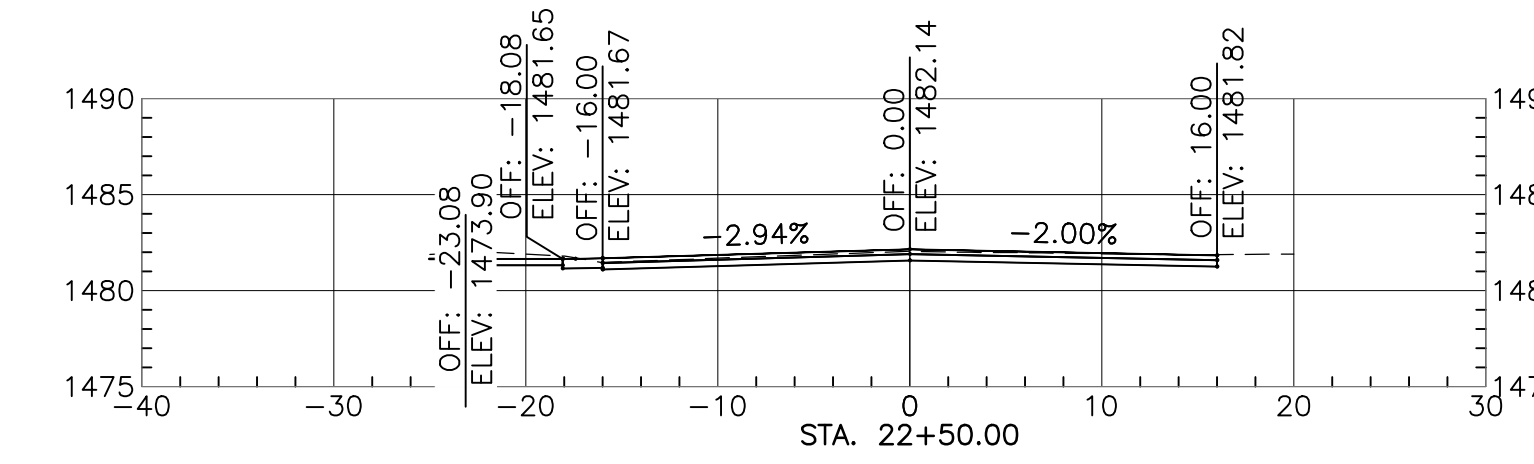
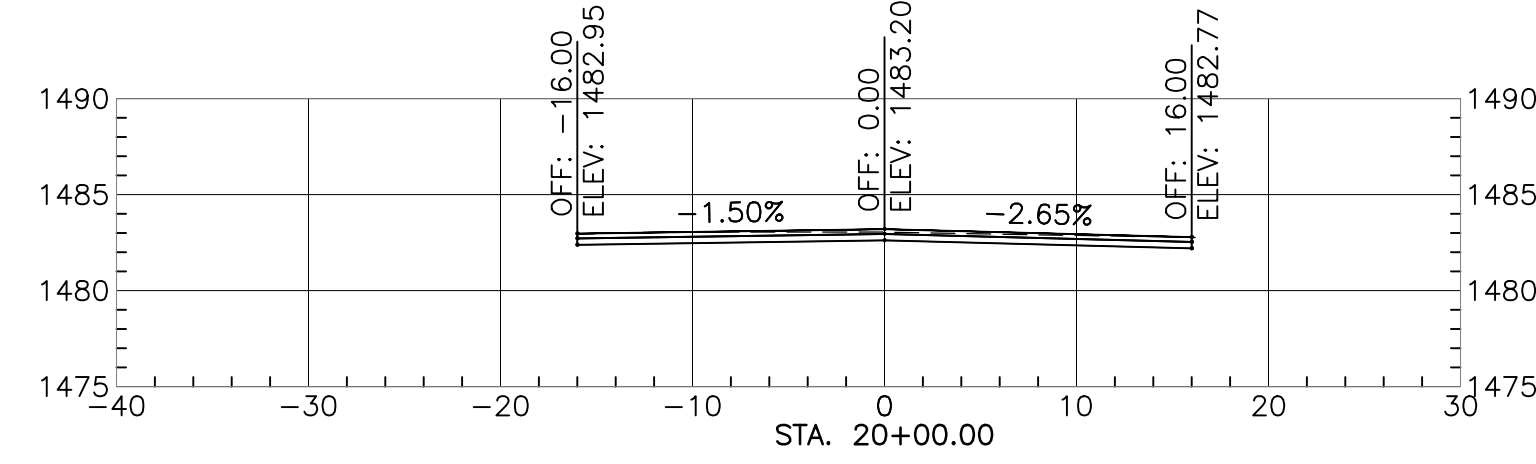
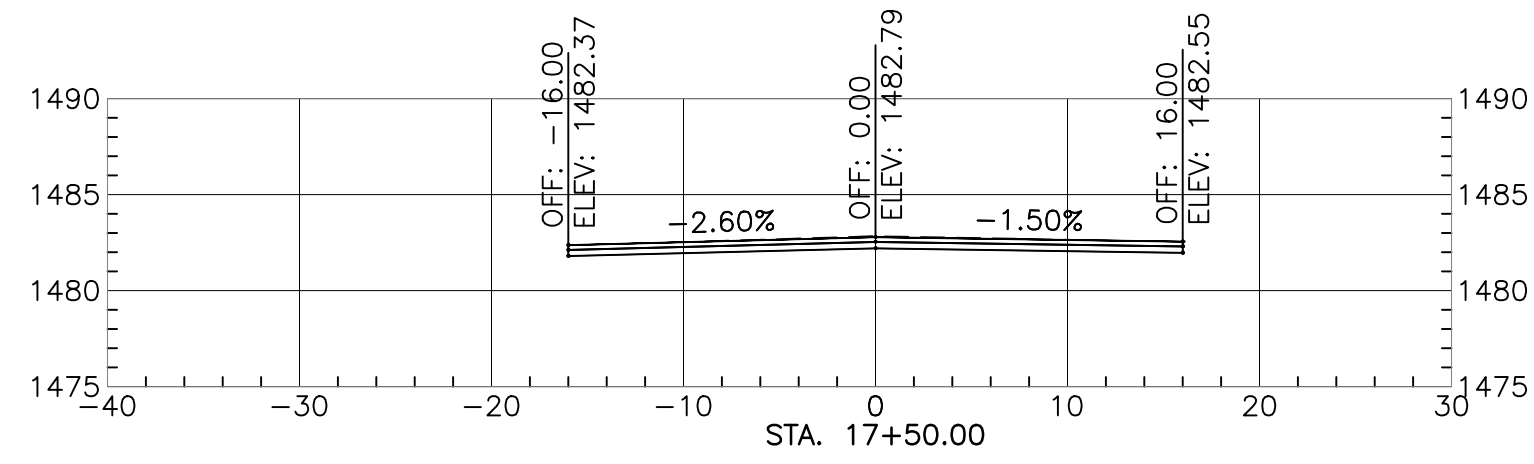


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			
CONSULTING ENGINEER				
DES	DR:	CK:	DATE:	

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION



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 PHOENIX, AZ 85008
 (602) 283-2701

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 Call 811 or click Arizona811.com

LEGEND AND NOTES				
TOWN OF FLORENCE, ARIZONA				
1st STREET CROSS SECTIONS - (3)				
DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 6/2017	16	32
SCALE: N/A				

M:\TRN\16-100-112-01_2_DISCIPLINES\REFERENCES\1ST STREET DESIGN.DWG, 1/26/2017

1st STREET PAVEMENT
 FLORENCE – PINAL CO.
 MAIN STREET TO HIGHWAY 79

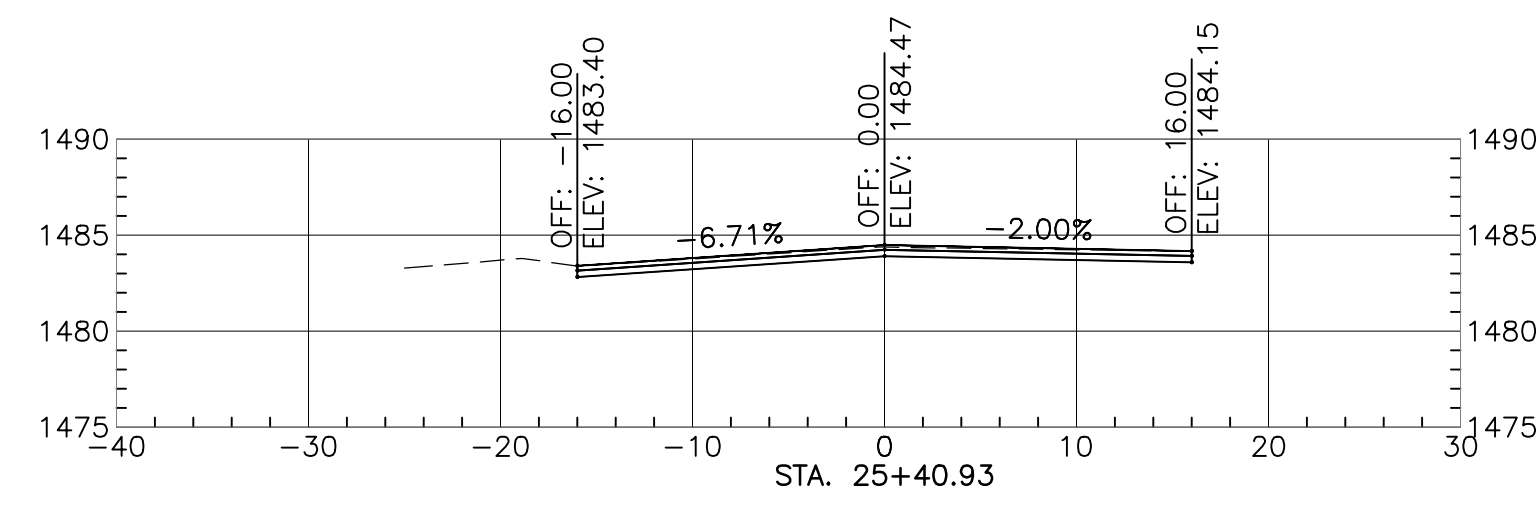
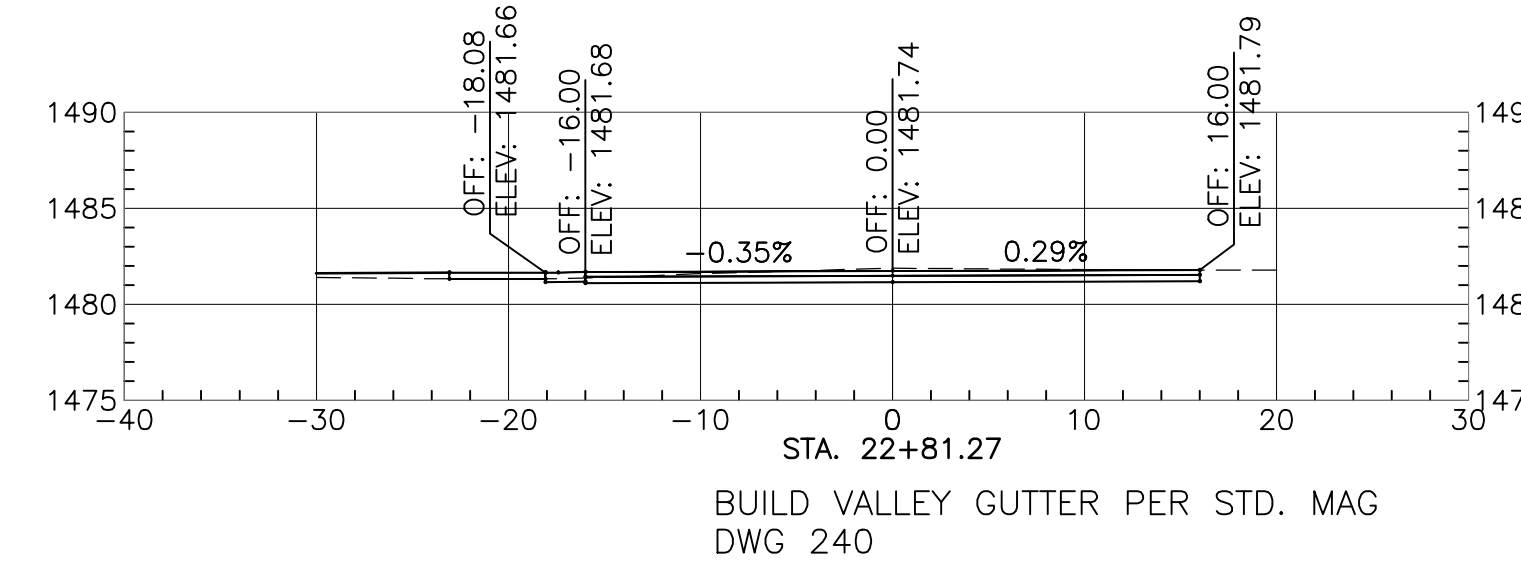
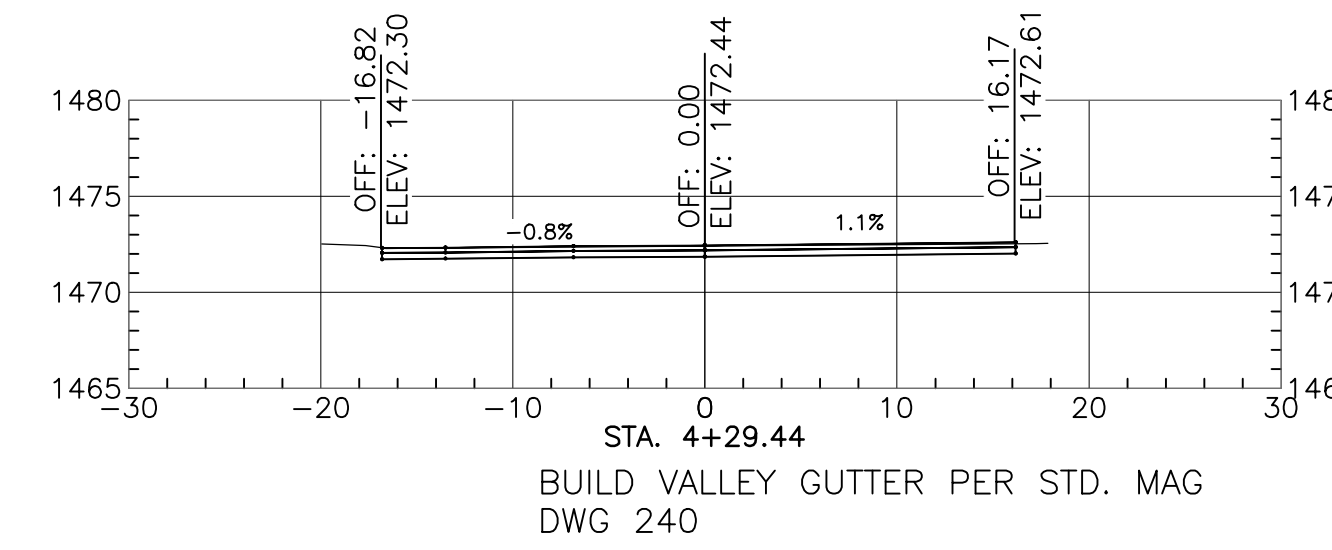
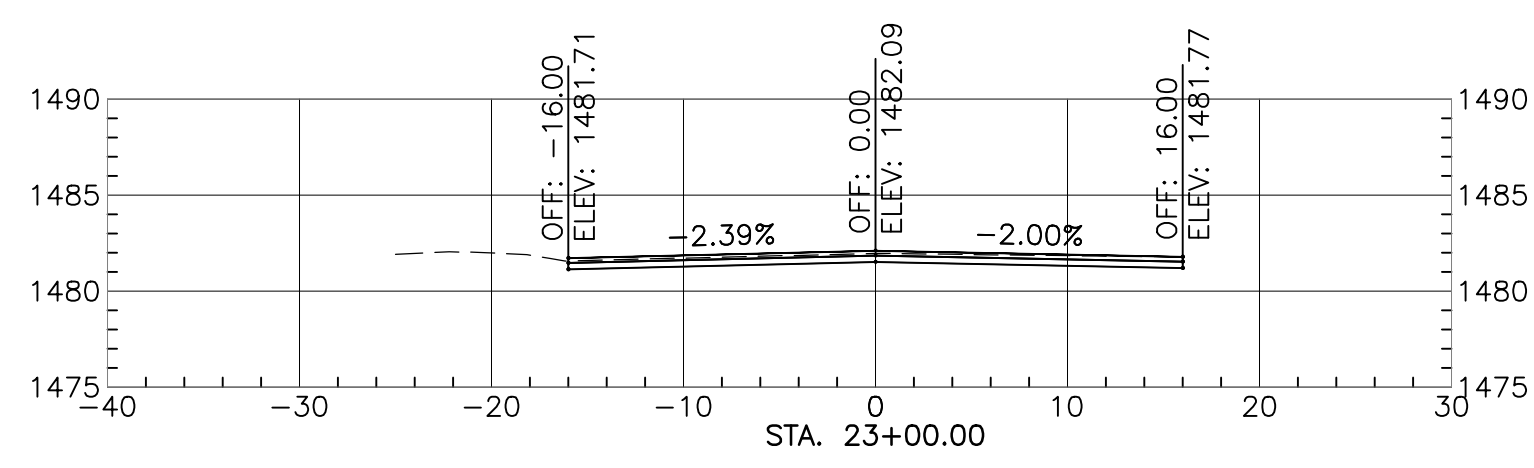
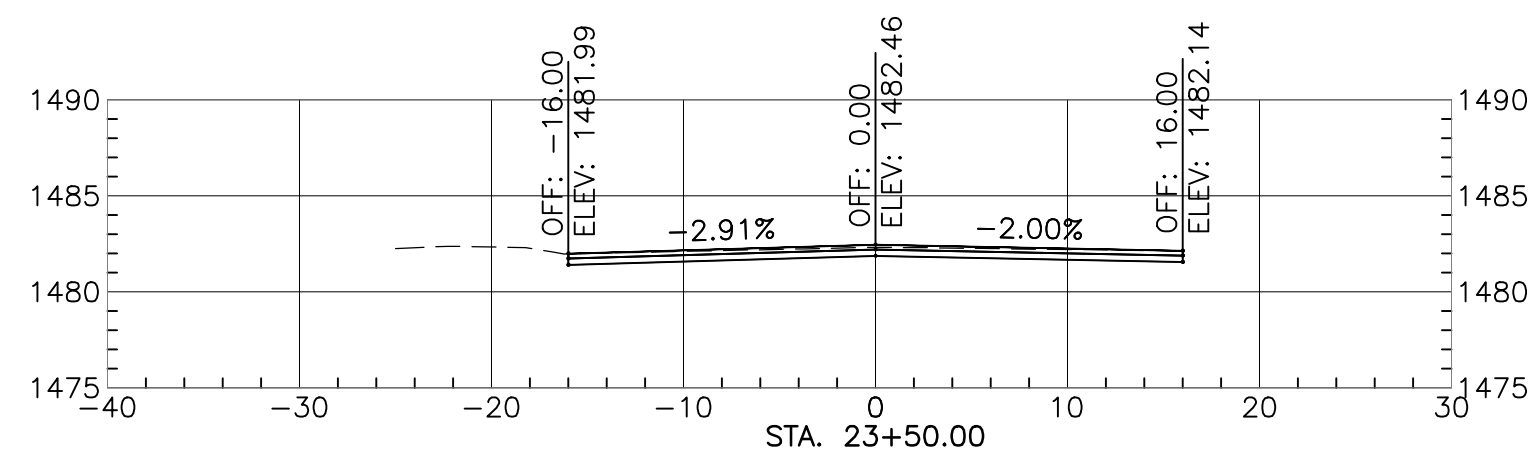
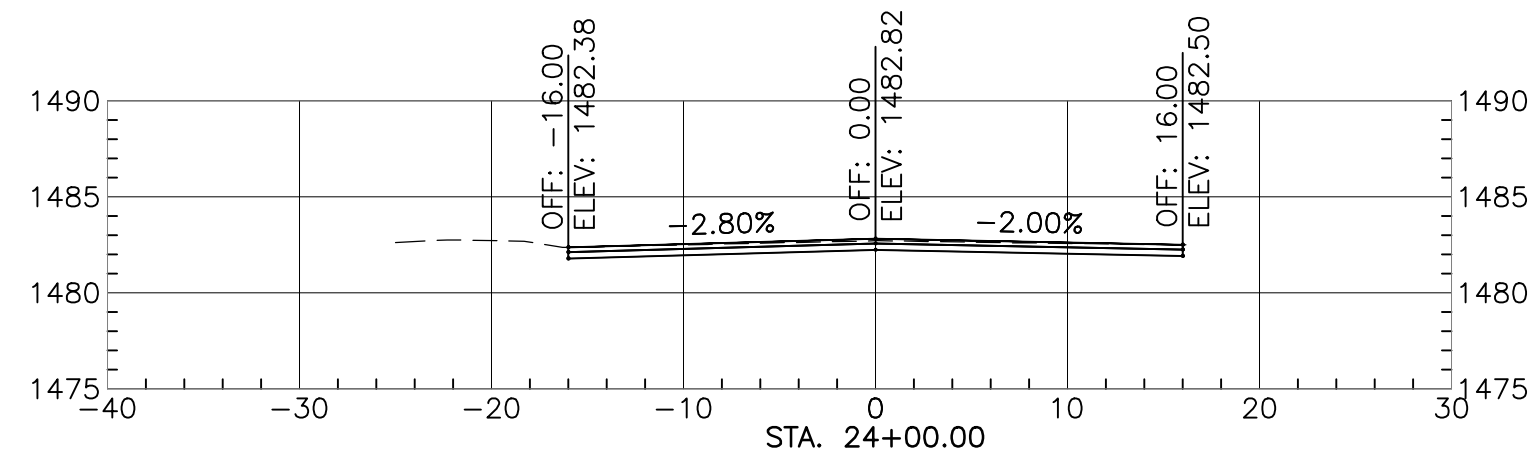
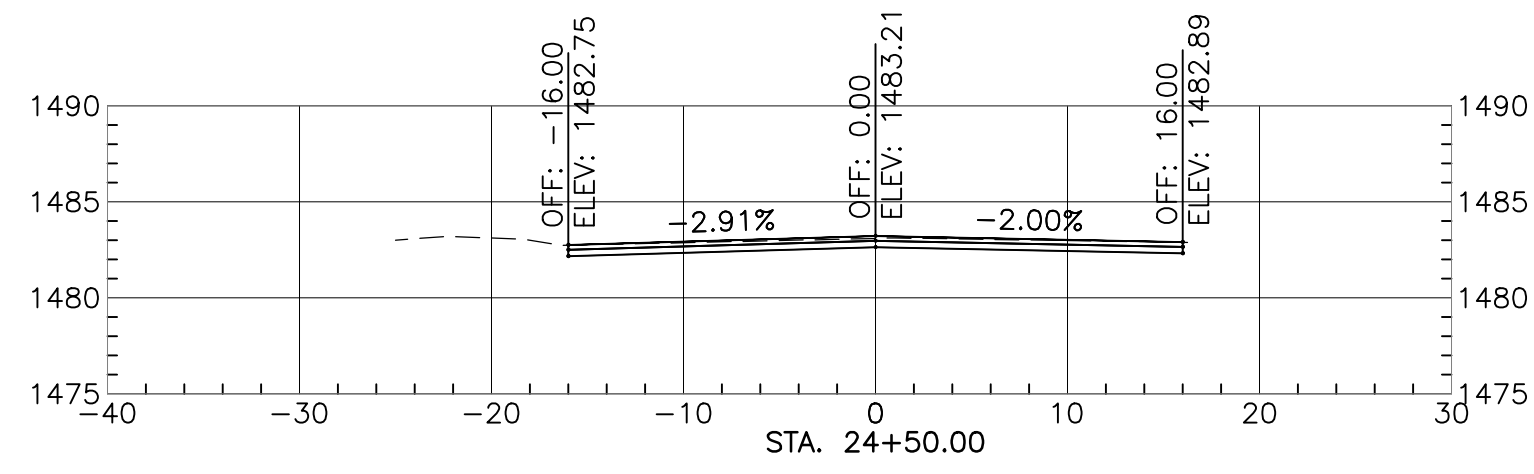
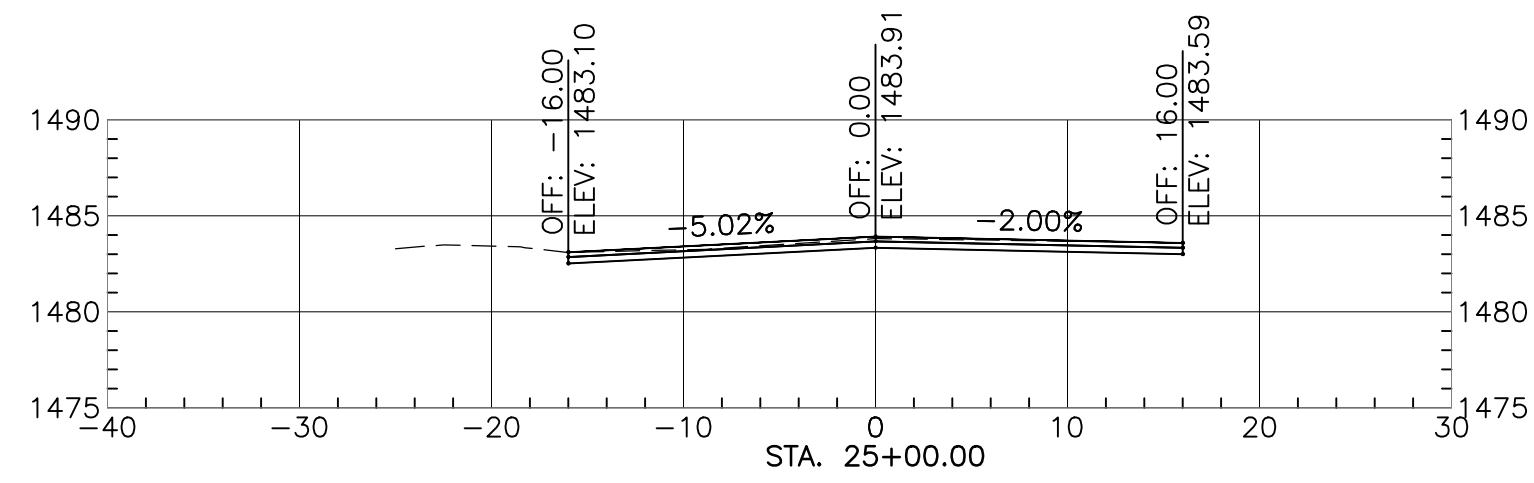


F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			
CONSULTING ENGINEER				
DES	DR:	CK:	DATE:	

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION

REVISION BY TOWN OF FLORENCE	
NO.	DESCRIPTION



WILSON & COMPANY
 410 N. 44TH STREET, SUITE 460
 PHOENIX, AZ 85008
 (602) 283-2701

Contact Arizona 811 at least two full working days before you begin excavation

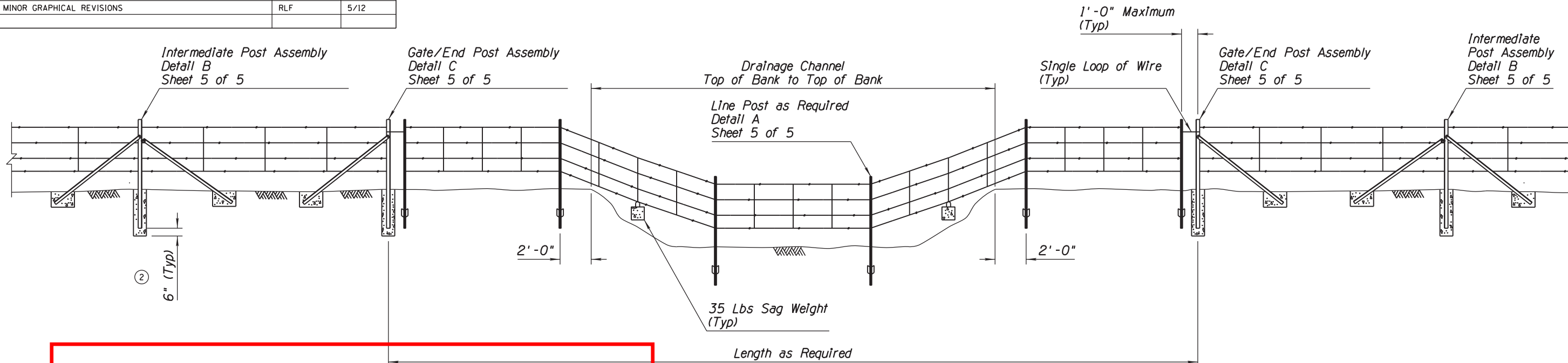
LEGEND AND NOTES
 TOWN OF FLORENCE, ARIZONA

**1st STREET
 CROSS SECTIONS - (4)**

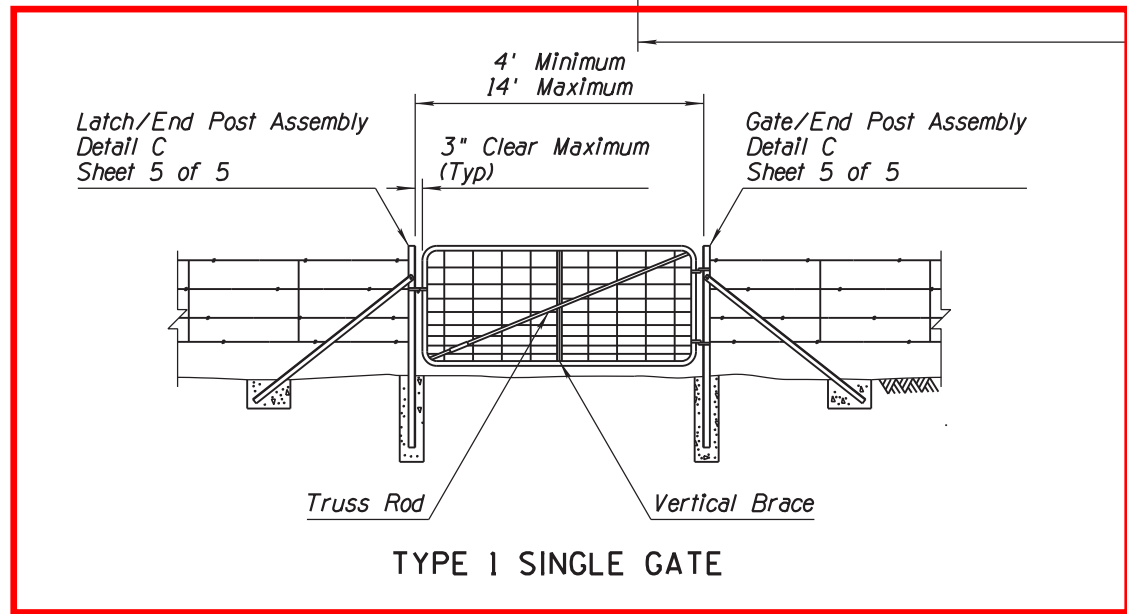
DR: TGO	DES: CLL	CK: ASF	SHEET NO:	TOTAL SHEETS
DATE: 6/2017	DATE: 6/2017	DATE: 5/2017	17	32
SCALE: N/A				

M:\TRN\16-100-112-01_2_DISCIPLINES\REFERENCES\1ST STREET DESIGN.DWG, 1/26/2017

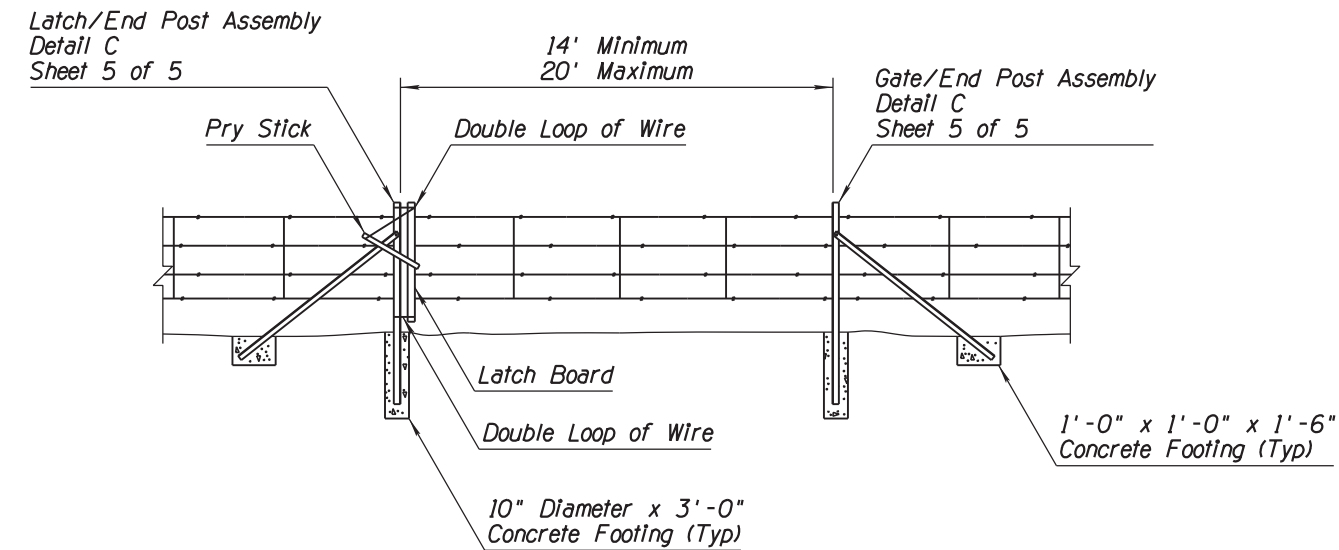
NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	REISSUED STD DWG	PNB	7/94
2	ADDED DIMENSION	RLF	9/04
3	MINOR GRAPHICAL REVISIONS	RLF	5/12
4			



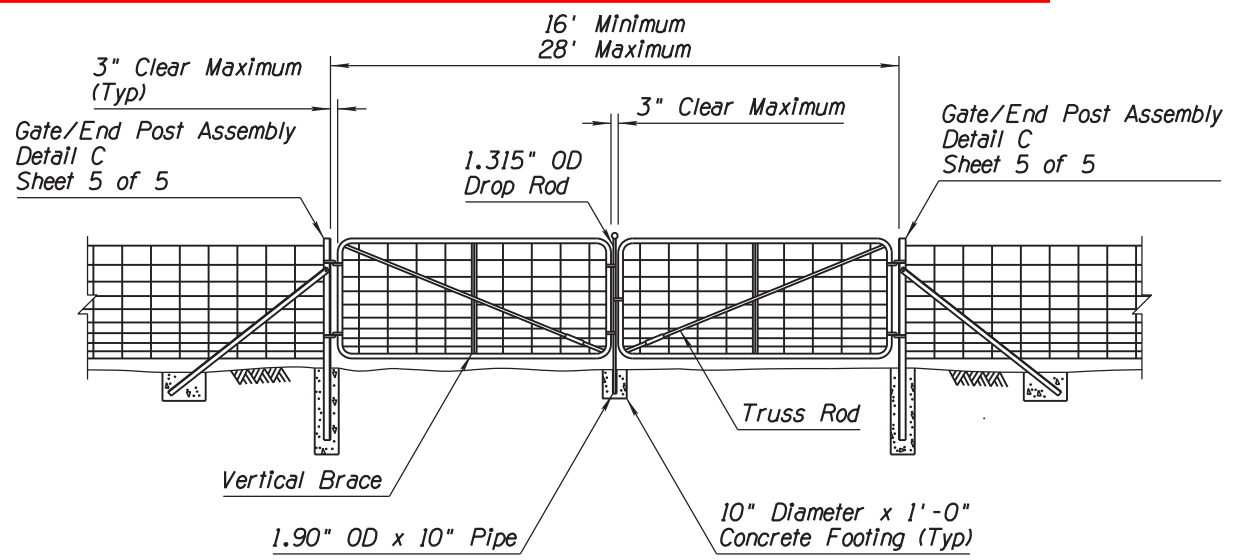
FLOOD GATE



TYPE 1 SINGLE GATE



TYPE 2 GATE



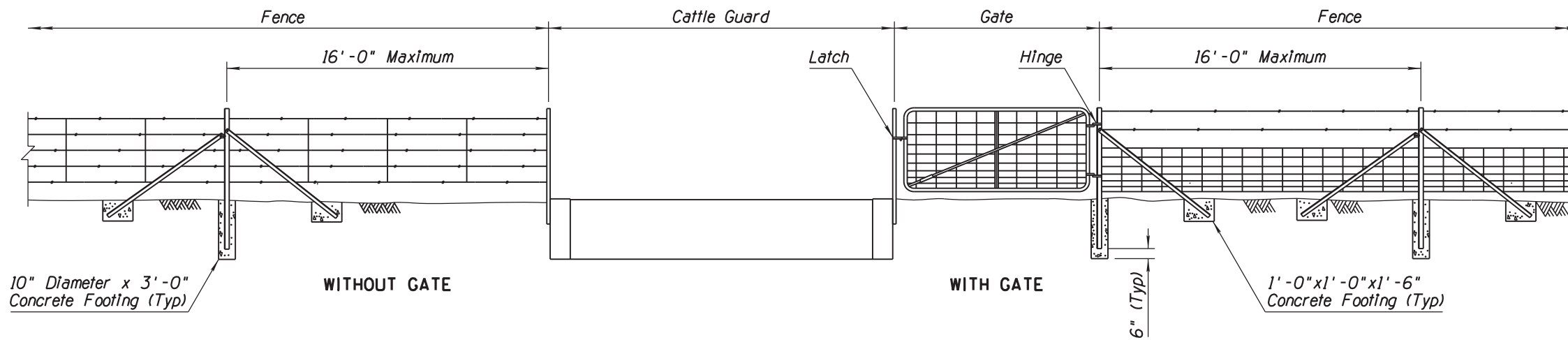
TYPE 1 DOUBLE GATE

APPROVED FOR DESIGN 	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD DRAWINGS	REV. 5/12
APPROVED FOR DISTRIBUTION 	① FENCE TYPE 1 AND 2 GATES FLOOD GATE ③	DRAWING NO. C-12.10 Sheet 3 of 5

NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	REISSUE STD	PNB	7/94
2	REVISED VIEW GRAPHICS	RLF	5/12
3	MOVED FENCE LOCATION VIEW TO SHEETS 1 & 2 OF 5	RLF	5/12
4			

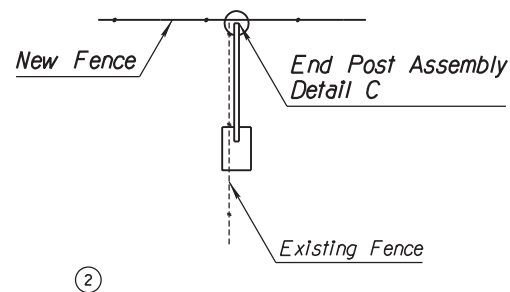
GENERAL NOTES

1. Post assemblies shall consist of an upright angle $2\frac{1}{2}'' \times 2\frac{1}{2}'' \times \frac{1}{4}''$ at 4.10 lbs/ft, and brace angles $2'' \times 2'' \times \frac{1}{4}''$ at 3.19 lbs/ft.

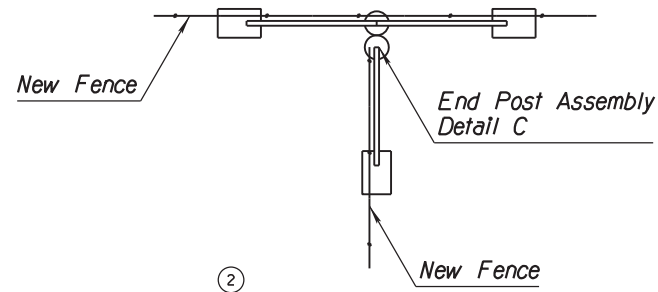


TYPICAL FENCE LOCATION AT CATTLE GUARD

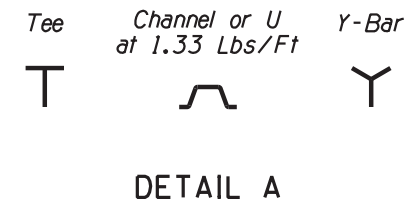
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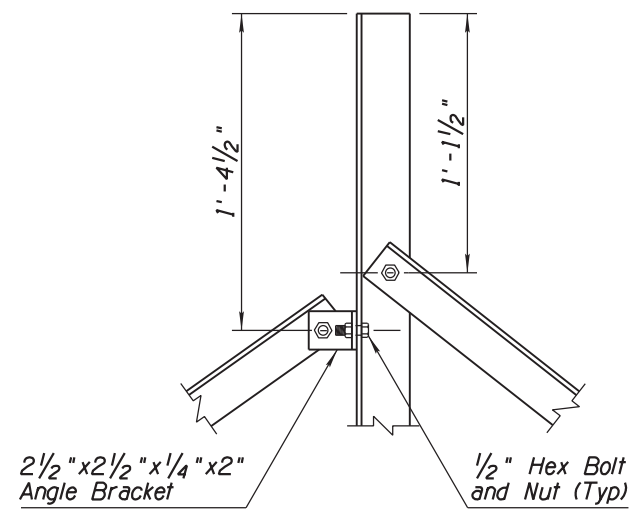
ABUTTING FENCE



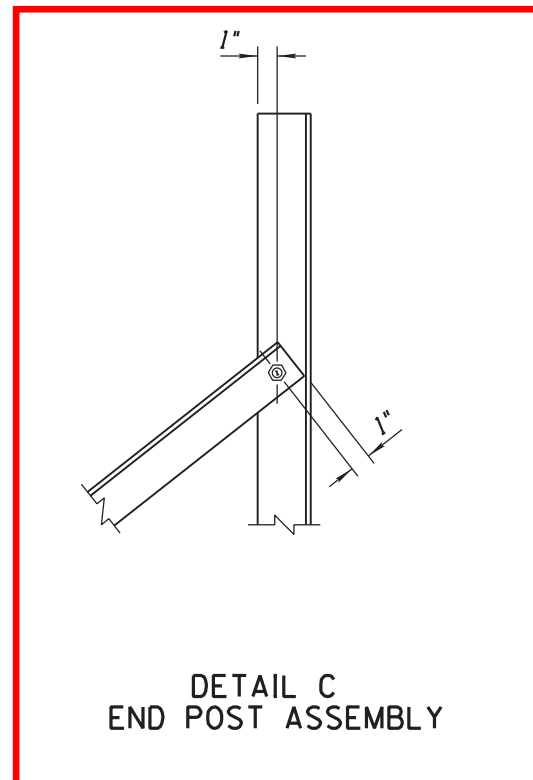
ABUTTING FENCE AT POST



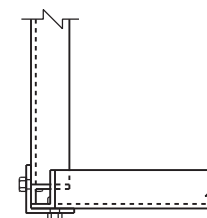
TYPICAL CROSS SECTIONS OF LINE POST SHAPES



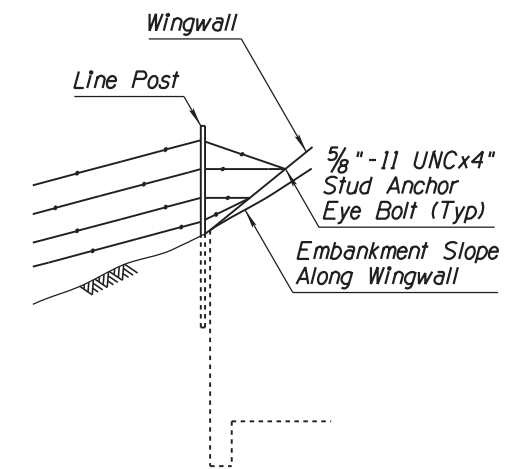
DETAIL B INTERMEDIATE POST ASSEMBLY



DETAIL C END POST ASSEMBLY



DETAIL D CORNER POST ASSEMBLY



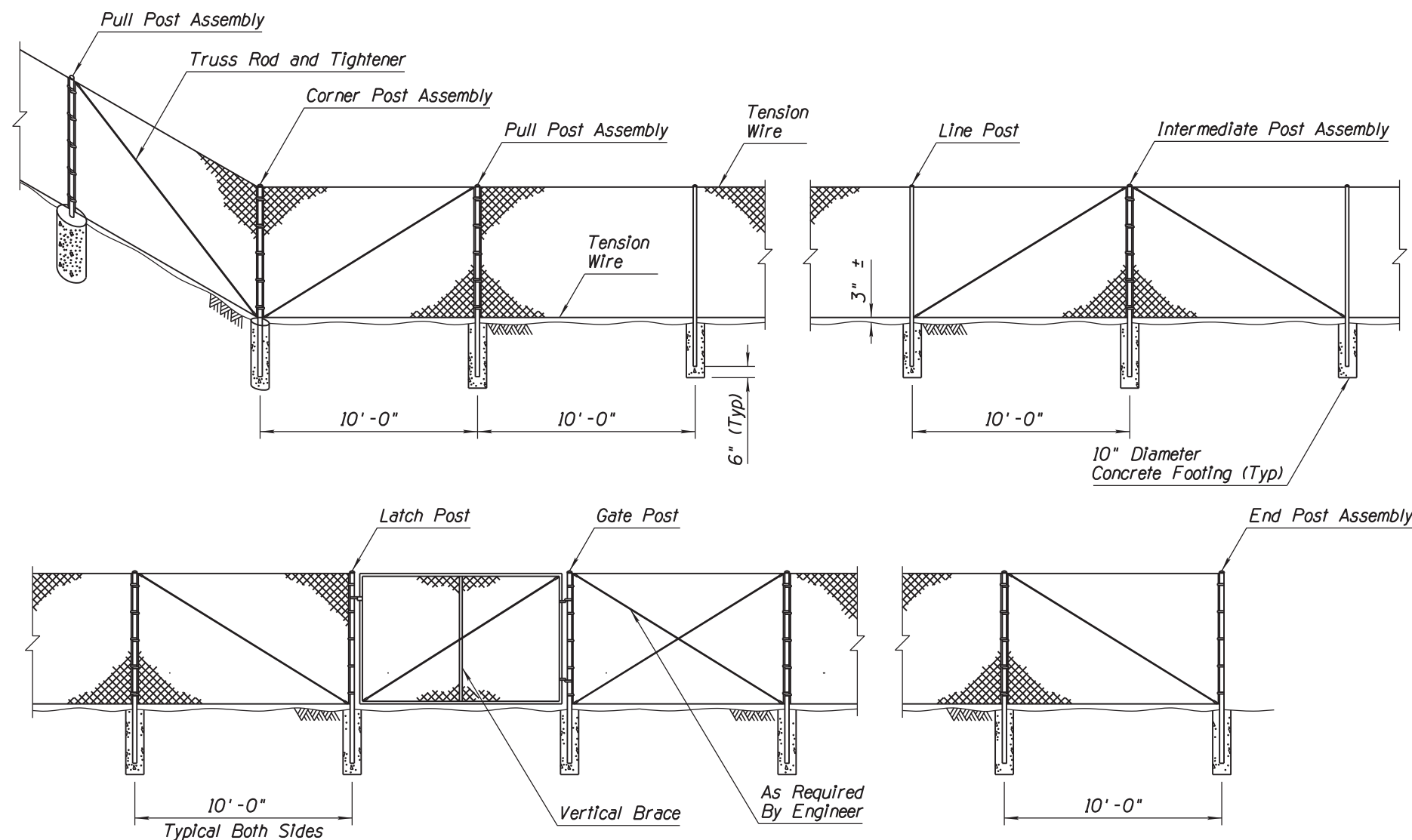
DETAIL E FENCE CONNECTION TO WINGWALL

APPROVED FOR DESIGN 	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD DRAWINGS	REV. 5/12
APPROVED FOR DISTRIBUTION 	① FENCE MISCELLANEOUS DETAILS	DRAWING NO. C-12.10 Sheet 5 of 5

NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	MODIFIED TABLE MEASUREMENT FORMAT	RLF	9/04
2	NEW GENERAL NOTE #2; RENUMBERED ALL OTHER NOTES	RLF	5/12
3	ADDED "TYPICAL FENCE LOCATION" VIEW	RLF	5/12
4			

GENERAL NOTES

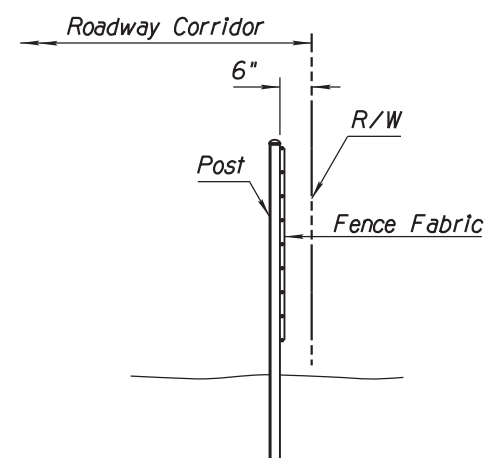
- Posts shall be round, H-section, or roll-formed and shall conform to the nominal dimensional requirements shown on the plans. Dimensional tolerances for all shapes shall be according to ASTM A500. In addition, the material of which posts are fabricated shall have a nominal thickness, before galvanizing, of not less than 0.111" for line posts and 0.130" for terminal posts.
- Chain link fabric shall be attached on the side of the line posts away from the main roadway.
- Chain link fabric shall be either zinc-coated or aluminum-coated steel wire fence fabric. Zinc-coated steel fabric shall conform to the requirements of ASTM A392, Class 1 coating. Aluminum-coated steel fabric shall conform to the requirements of ASTM A491, with a minimum weight of coating of 0.40 ounce per square foot of wire surface area. Fabric shall be 11 gauge for all fence fabric 60" or less in height and shall be 9 gauge for fabrics greater than 60" in height.
- Tension wires shall be 7 gauge (0.177" diameter) coil spring steel wire with a minimum tensile strength of 75,000 PSI and shall be zinc-coated or aluminum-coated.
- Truss rods shall be 3/8" diameter adjustable rods. Truss tighteners shall have a strap thickness of not less than 1/4".
- Stretcher bars shall be 3/16" x 3/4" steel flat bars. Stretcher bar bands shall be 1/8" x 1" preformed steel bands.
- Bottom tension wire shall be 3" from top of crown on concrete footings.
- Intermediate post assemblies shall be spaced at 500' intervals or midway between pull posts when the distance between such posts is less than 1,000' and more than 500'.



TYPICAL CHAIN LINK FENCE INSTALLATION - TYPE I SHOWN

①

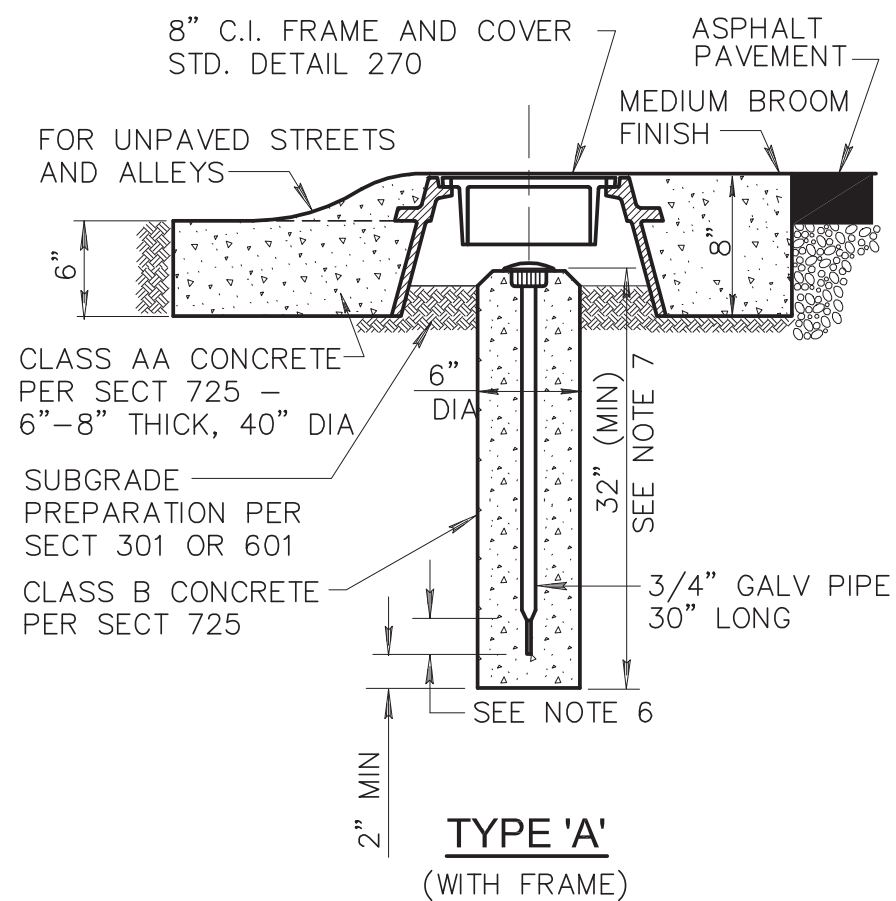
TYPICAL POST DIMENSIONS								
Fabric Height (In)	Length (Ft-In)	Corner, End, Intermediate, Gate, Latch and Pull Posts			Line Posts			
		Round (OD) (In)	Roll Formed (In)		Length (Ft-In)	Round (OD) (In)	Roll Formed (In)	
			⌒	□		H-Section (In)	□ (In)	
36	6-0	2.375	3.50 x 3.50	2.25 x 1.70	5-6	1.900	1.875 x 1.625	1.875 x 1.625
48	7-0	2.375	3.50 x 3.50	2.25 x 1.70	6-6	1.900	1.875 x 1.625	1.875 x 1.625
60	8-0	2.375	3.50 x 3.50	2.25 x 1.70	7-6	1.900	1.875 x 1.625	1.875 x 1.625
72	9-0	2.375	3.50 x 3.50	2.25 x 1.70	8-6	1.900	1.875 x 1.625	1.875 x 1.625
Over 72	Height +3-0	2.875	3.50 x 3.50	2.50 x 2.50	Height +2-6	2.375	2.250 x 2.000	1.875 x 1.625



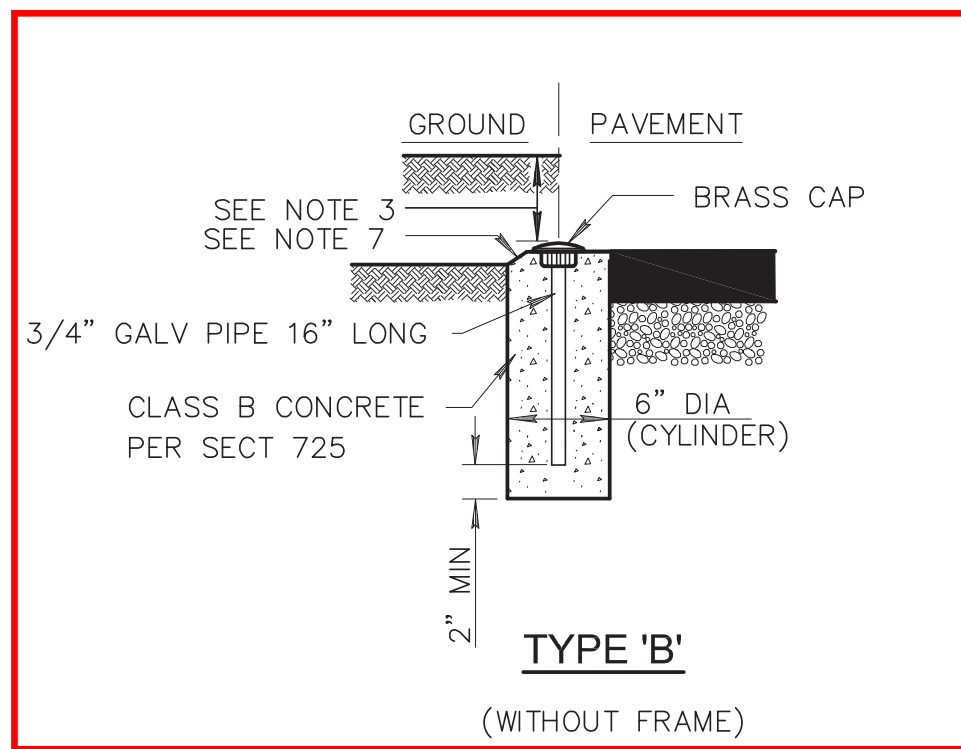
③

TYPICAL FENCE LOCATION

APPROVED FOR DESIGN 	STATE OF ARIZONA DEPARTMENT OF TRANSPORTATION ROADWAY STANDARD DRAWINGS	REV. 5/12
APPROVED FOR DISTRIBUTION 	FENCE CHAIN LINK TYPE I	DRAWING NO. C-12.20 Sheet 1 of 3



TYPE 'A'
(WITH FRAME)

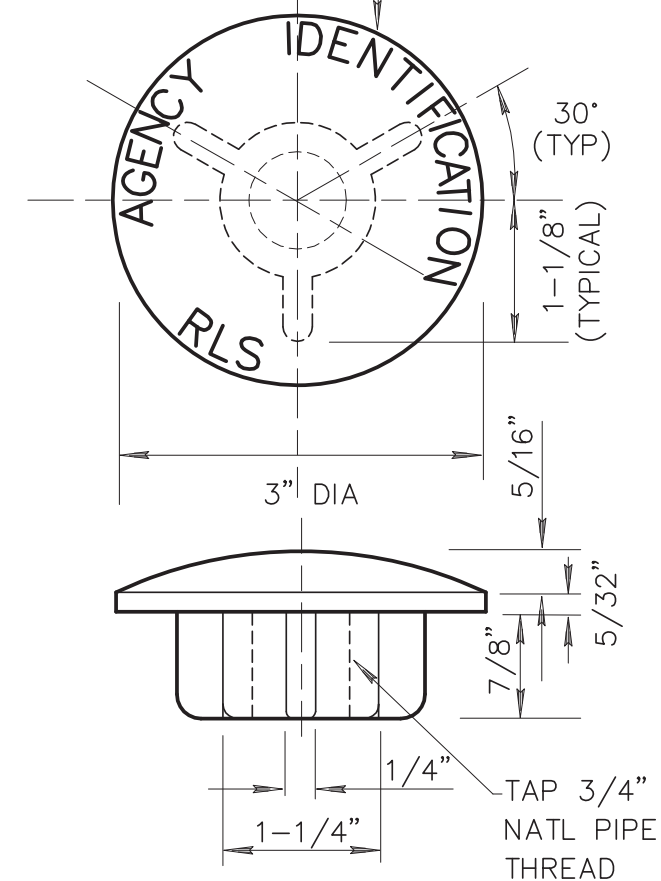


TYPE 'B'
(WITHOUT FRAME)

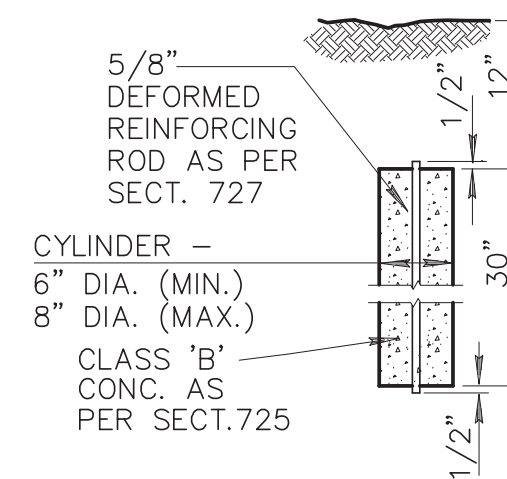
NOTES:

1. TYPE 'A' TO BE USED AT INTERSECTIONS OF MAJOR STREETS & COLLECTOR STREETS, SECTION CORNERS, SECTION 1/4 CORNERS, CENTER OF SECTIONS, AND AT OTHER POINTS AS SHOWN ON PLANS.
2. TYPE 'B' TO BE USED (EXCEPT WHERE TYPE 'A' IS SPECIFIED) AT INTERSECTION OF STREET CENTERLINES, PC'S, PT'S AND PI'S OF CURVES, SECTION 1/16 CORNERS, SUBDIVISION CORNERS, CHANGE IN ALIGNMENT OF SUBDIVISION BOUNDARIES, AND AT OTHER POINTS AS SHOWN ON PLANS.
3. FOR UNPAVED STREETS AND ALLEYS SET TOP OF MARKER SIX INCHES BELOW FINISHED GRADE.
4. CAP TO BE CONSTRUCTED OF RED BRASS OR BRONZE.
5. LETTERS TO BE APPROX. 1/32" WIDE & 1/32" DEEP.
6. FLATTENING THE BOTTOM 2" OF THE GALVANIZED PIPE IS OPTIONAL.
7. TOP OF CONCRETE POST IS CHAMFERED 3/4" EXCEPT WHEN SET FLUSH WITH PAVEMENT.
8. THE CAP SHALL SHOW THE POINT SURVEYED BY A PUNCH MARK OR SCRIBED CROSS AND THE CAP SHALL BE STAMPED WITH THE YEAR AND THE REGISTERED LAND SURVEYOR'S (RLS) REGISTRATION NUMBER.
9. WHEN APPLICABLE, THE CAP SHALL BE STAMPED WITH THE APPROPRIATE PUBLIC LAND MARKING PER CURRENT MANUAL OF INSTRUCTIONS FOR THE SURVEY OF PUBLIC LANDS OF THE UNITED STATES, PREPARED BY THE BUREAU OF LAND MANAGEMENT.
10. SUBMIT TO THE ENGINEER A COPY OF THE RECORDED CORNER RECORD OR RESULTS OF SURVEY TO DOCUMENT COMPLIANCE WITH THE ARIZONA BOARD OF TECHNICAL REGISTRATION REQUIREMENTS.

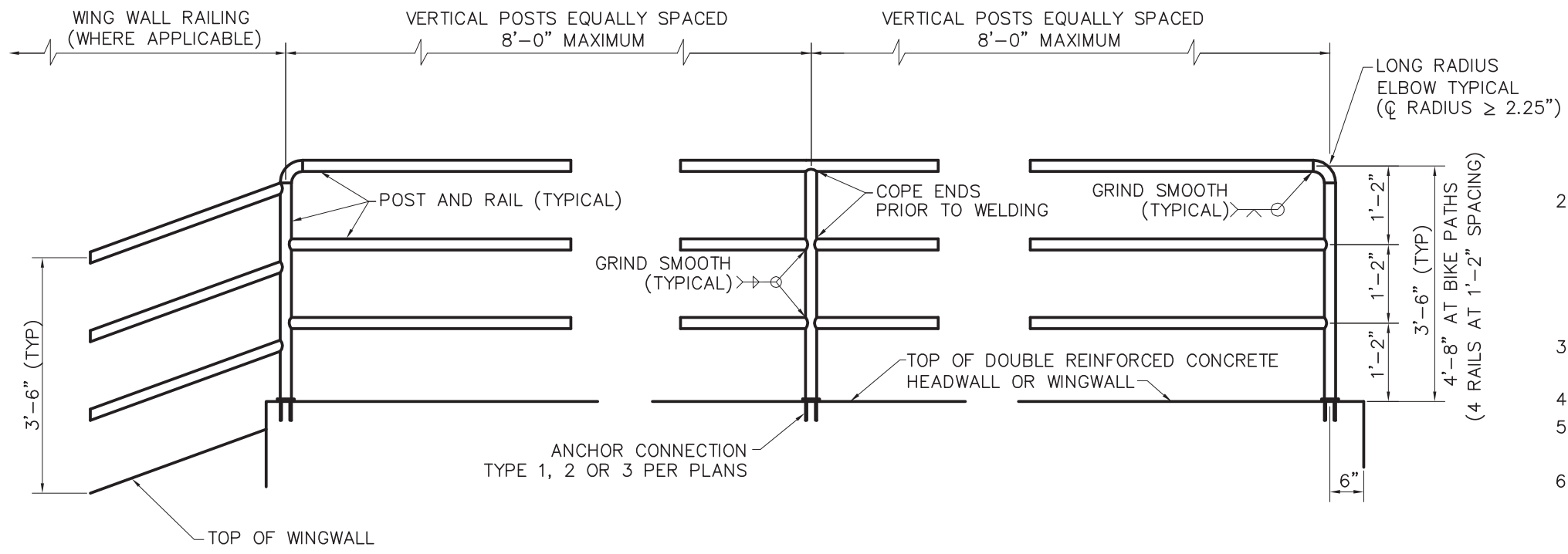
1/16" BORDER FROM EDGE OF CAP TO TOP OF 1/4" LETTERING.



CAP DETAIL



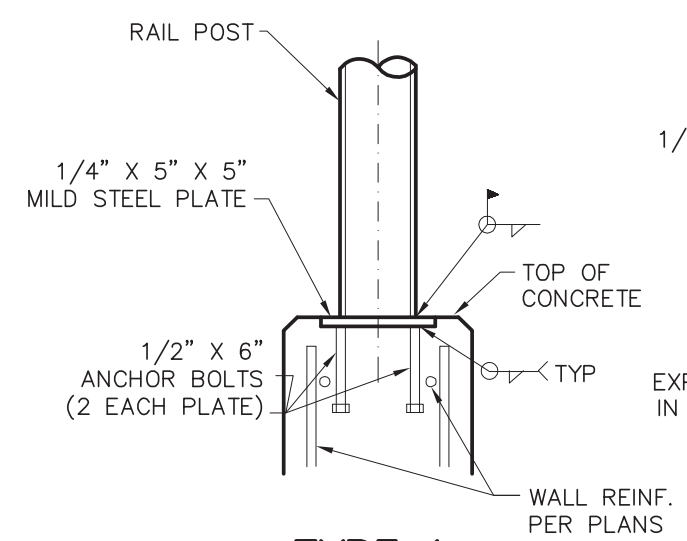
TYPE 'C'



ELEVATION

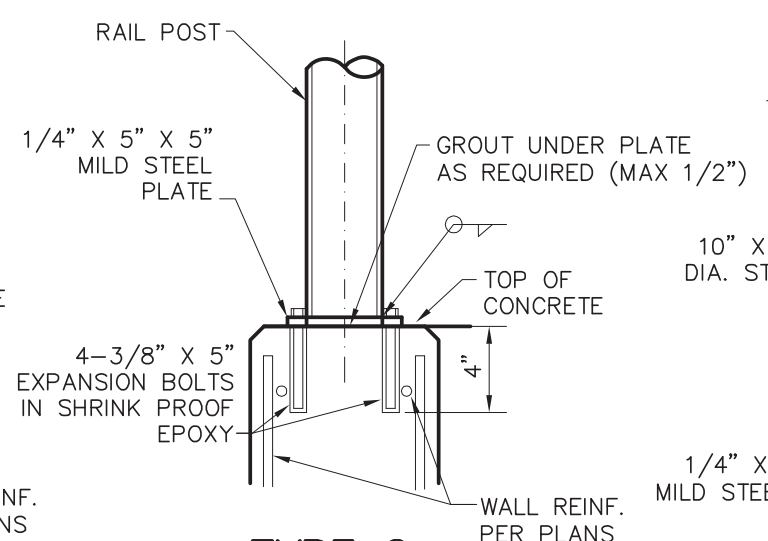
NOTES:

1. POSTS AND RAILS SHALL BE 1.90 INCH OUTSIDE DIAMETER HIGH STRENGTH HEAVY INDUSTRIAL STEEL PIPE CONFORMING TO ASTM F1043 MATERIAL GROUP IA-2 (2.72 LB/FT, MINIMUM YIELD STRENGTH = 50 KSI) OR MATERIAL GROUP IC GALVANIZED AFTER FORMING (2.28 LB/FT, MINIMUM YIELD STRENGTH = 50 KSI).
2. PAINT RAIL PER MAG SPECIFICATIONS SECTION 530 WHEN REQUIRED BY PLANS. SHOP PRIME WITH RUST INHIBITING PRIMER (FIELD REPAIR PRIMER AS NEEDED). COLOR PER PLANS.
3. VERTICAL POSTS TO BE EVENLY SPACED.
4. REMOVE ALL SHARP EDGES.
5. INSTALL SAFETY RAIL AS REQUIRED BY PLANS OR SPECIFICATIONS.
6. THE EMBEDMENT FOR ANCHOR TYPES 1, 2 AND 3 SHALL BE LOCATED INSIDE THE WALL REINFORCEMENT CAGE.
7. SAFETY RAIL IS NOT TO BE USED AS A PEDESTRIAN BRIDGE RAIL.



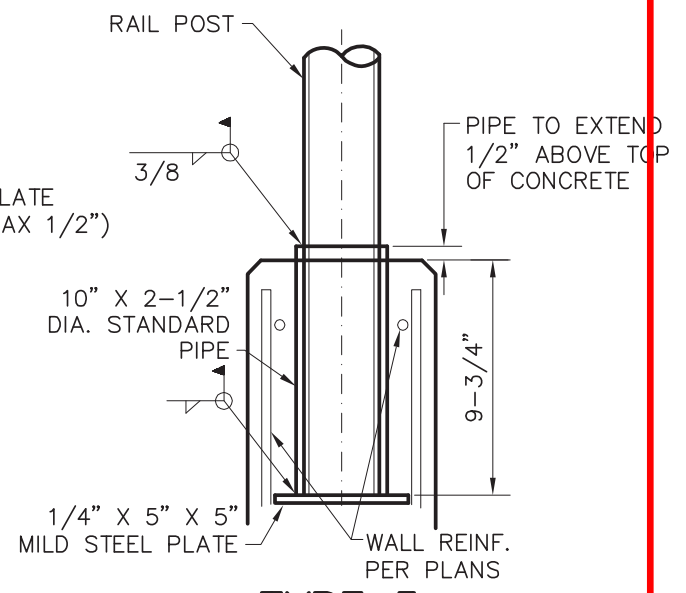
TYPE 1

ANCHOR PLATE DETAIL



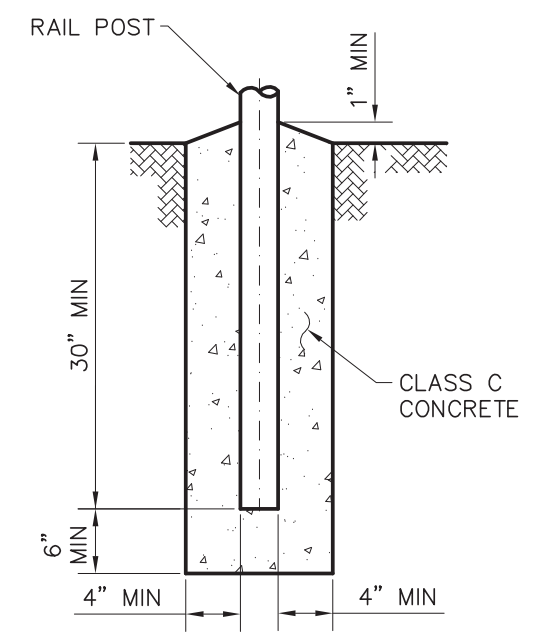
TYPE 2

EXPANSION BOLT DETAIL



TYPE 3

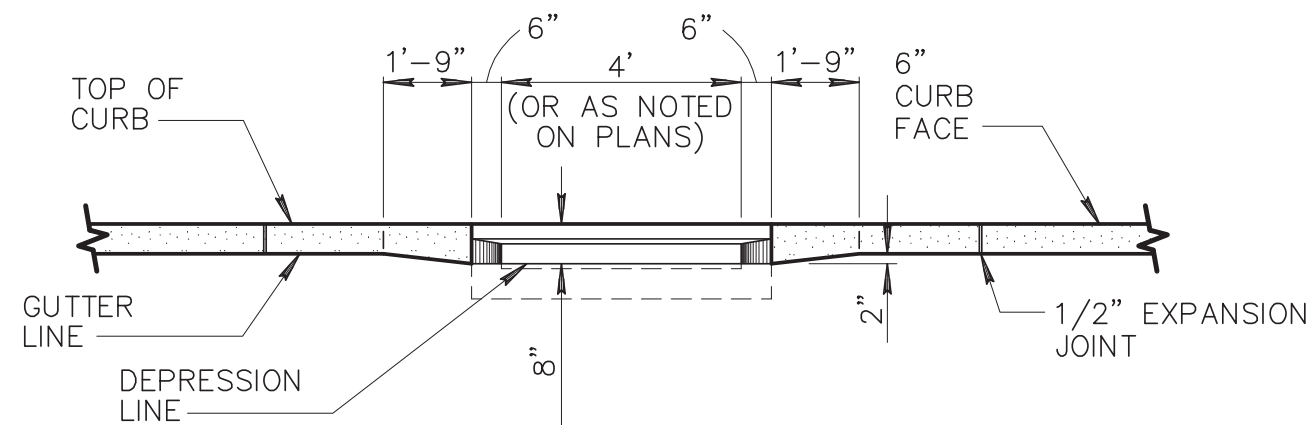
PIPE SLEEVE DETAIL



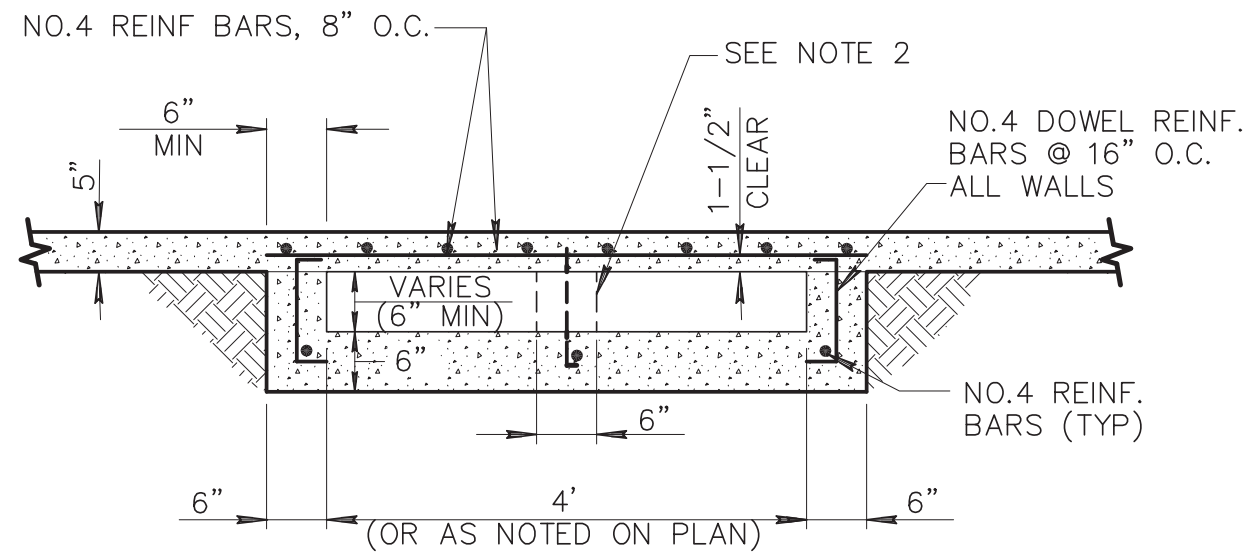
TYPE 4

GROUND INSTALLATION DETAIL

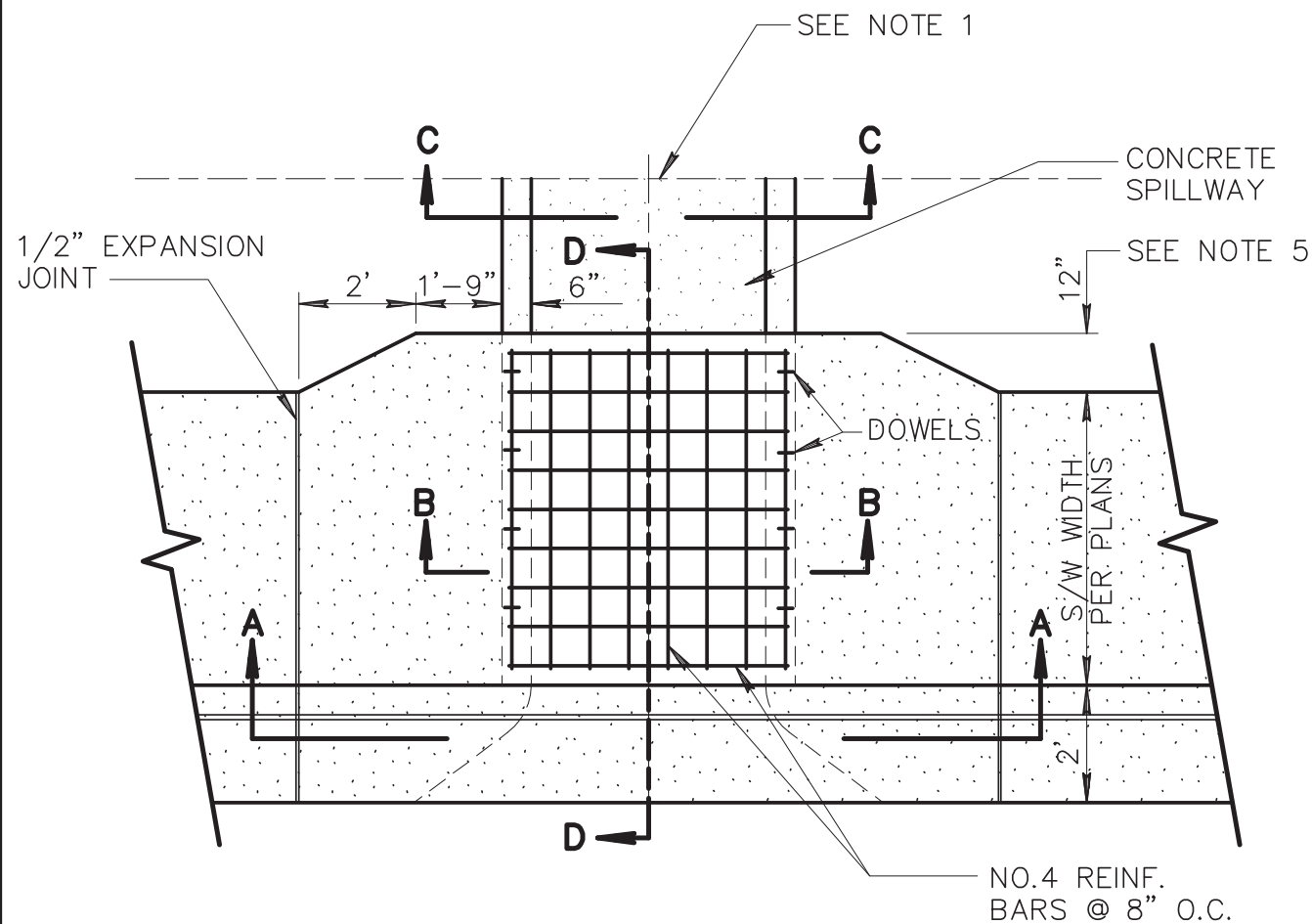
NOTE: SEE PLANS FOR ANCHORAGE DETAILS FOR ATTACHMENT TO SINGULARLY REINFORCED AND NON-REINFORCED WALLS.



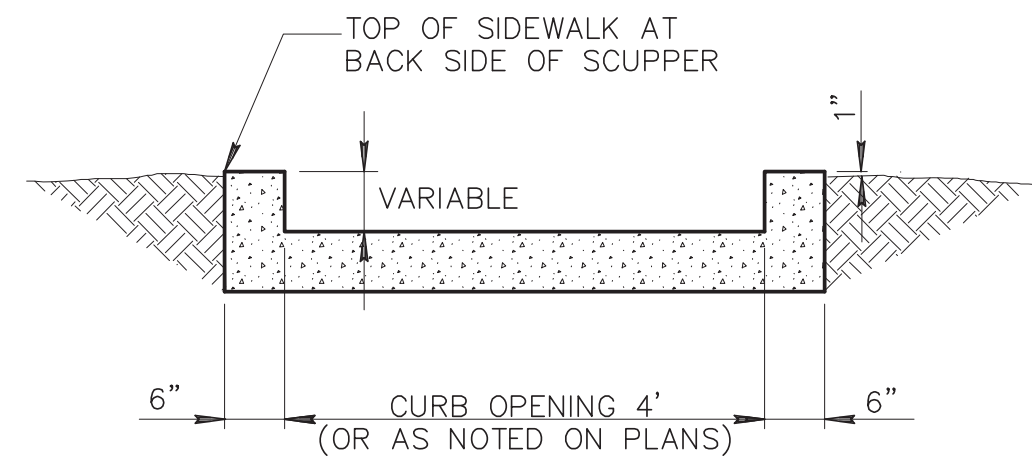
SECTION A-A



SECTION B-B



SCUPPER PLAN VIEW



SECTION C-C SPILLWAY

NOTES:

1. TRANSITION TO SPILLWAY/CHANNEL AS PER APPROVED PLANS.
2. A CENTER WALL SHALL BE INSTALLED IN SCUPPERS WIDER THAN 4' OR IF MORE THAN 1 SCUPPER IS BUILT IN SERIES.
3. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, ASTM D-1751.
4. CONCRETE FOR THE SCUPPER SHALL BE CLASS 'A' PER SECTION 725. CONCRETE FOR THE SPILLWAY SHALL BE CLASS 'A' OR CLASS 'B'.
5. 12" OFFSET DISTANCE SHALL BE INCREASED TO 2'-6" FOR DESIGNATED BICYCLE PATHS.

DETAIL NO.
206-1



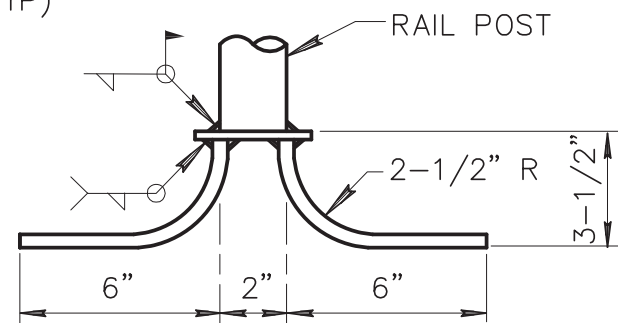
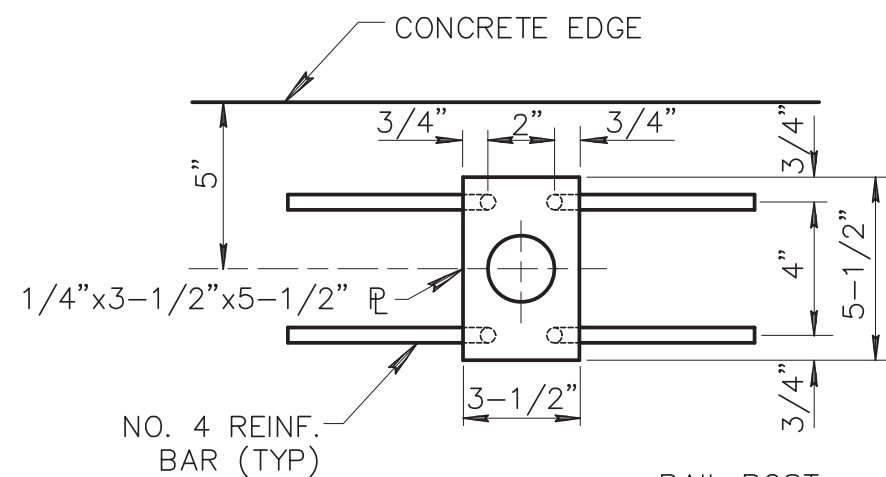
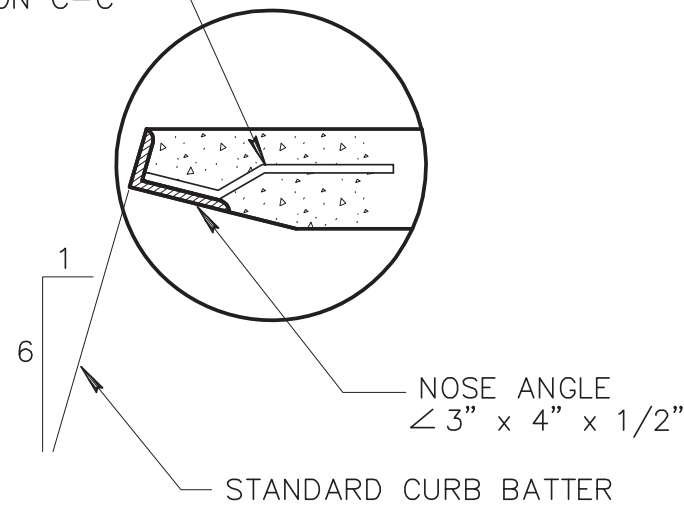
STANDARD DETAIL
ENGLISH

CONCRETE SCUPPER

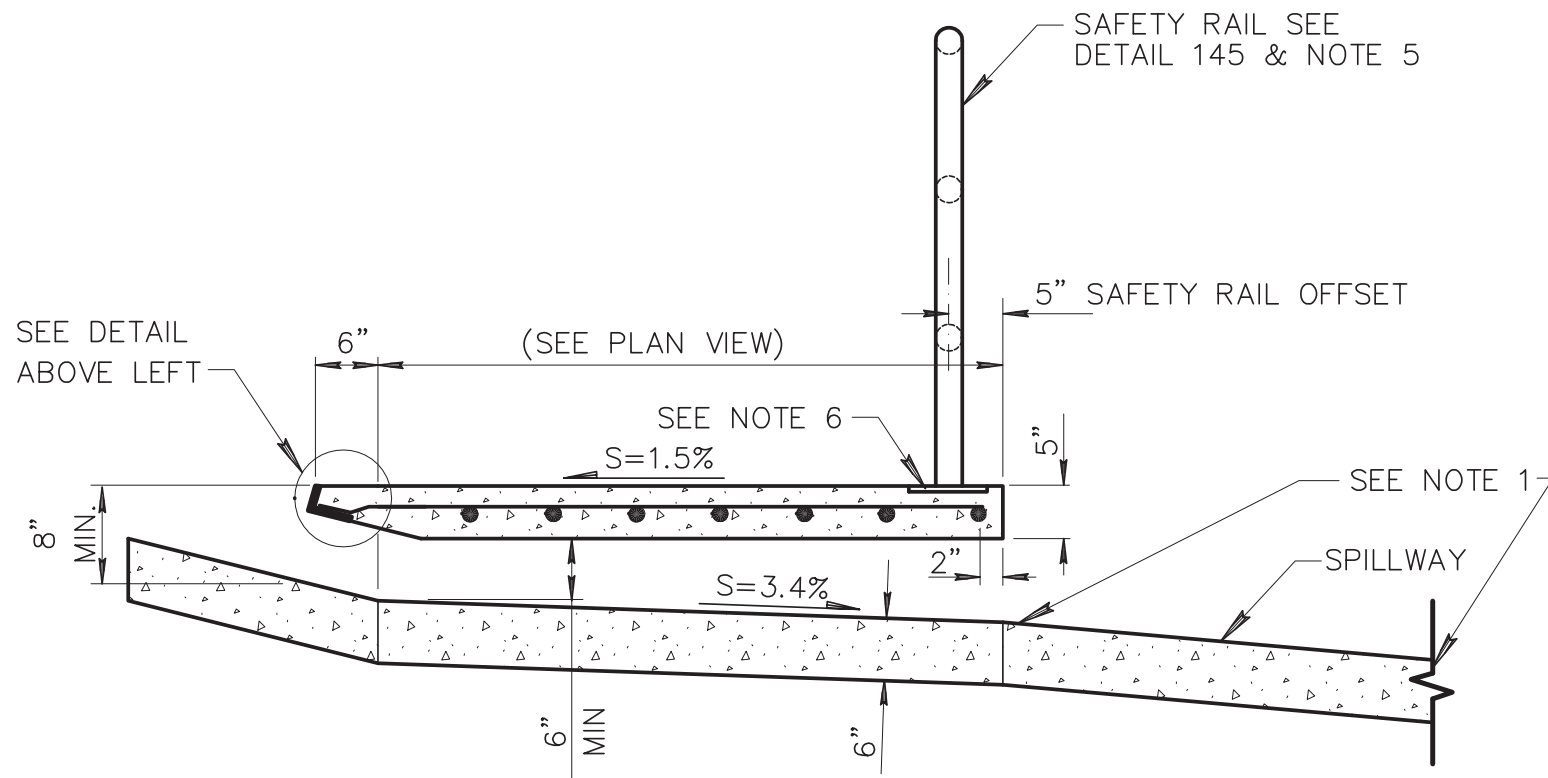
REVISED
01-01-2007

DETAIL NO.
206-1

NO. 4 REINFORCEMENT
WELDED TO ANGLE SEE
DETAIL 536-1,
SECTION C-C



WELD PLATE



SECTION D-D

NOTES:

1. TRANSITION TO SPILLWAY/CHANNEL AS PER APPROVED PLANS.
2. A CENTER WALL SHALL BE INSTALLED IN SCUPPERS WIDER THAN 4' OR IF MORE THAN 1 SCUPPER IS BUILT IN SERIES.
3. EXPANSION JOINT FILLER SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, ASTM D-1751.
4. CONCRETE FOR THE SCUPPER SHALL BE CLASS 'A' PER SECTION 725. CONCRETE FOR THE SPILLWAY SHALL BE CLASS 'A' OR CLASS 'B'.
5. SAFETY RAIL SHALL BE CONTINUOUS BETWEEN THE SPILLWAY EXTERIOR WALLS.
6. USE WELD PLATES FOR SAFETY RAIL ANCHORS LOCATED IN THE 5" THICK CONCRETE.

DETAIL NO.

206-2



STANDARD DETAIL
ENGLISH

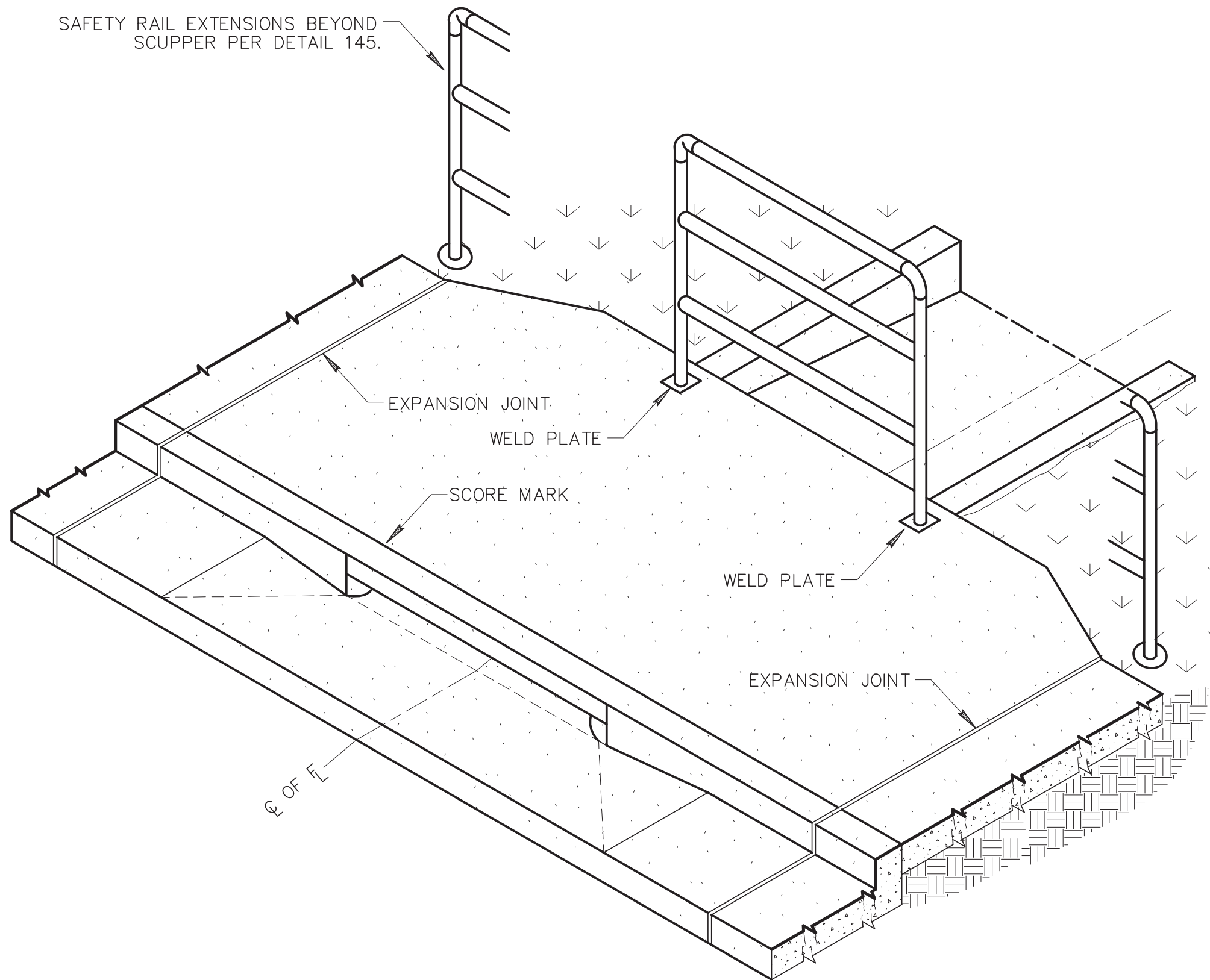
CONCRETE SCUPPER

REVISED

01-01-2007

DETAIL NO.

206-2



DETAIL NO.

206-3



STANDARD DETAIL
ENGLISH

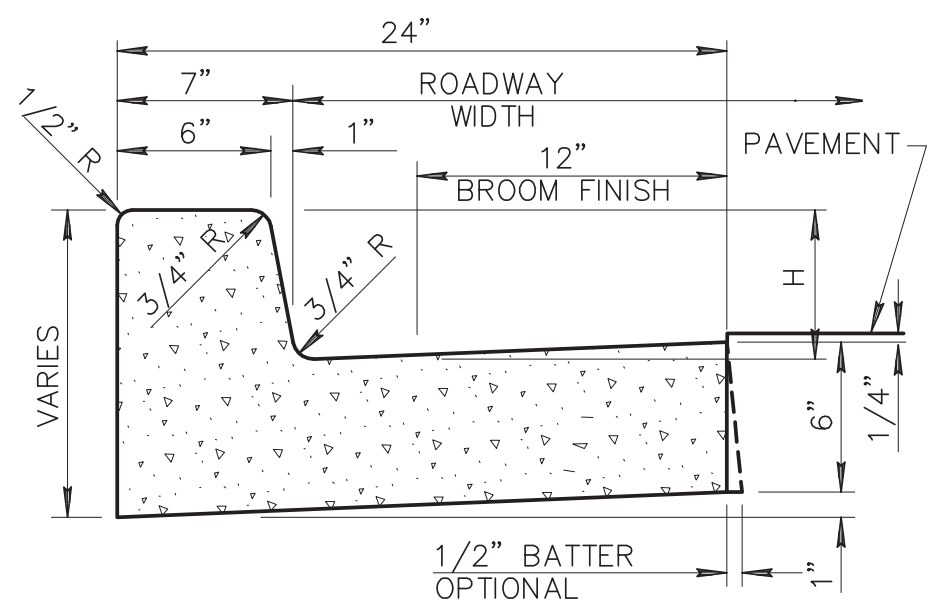
CONCRETE SCUPPER

REVISED

01-01-2007

DETAIL NO.

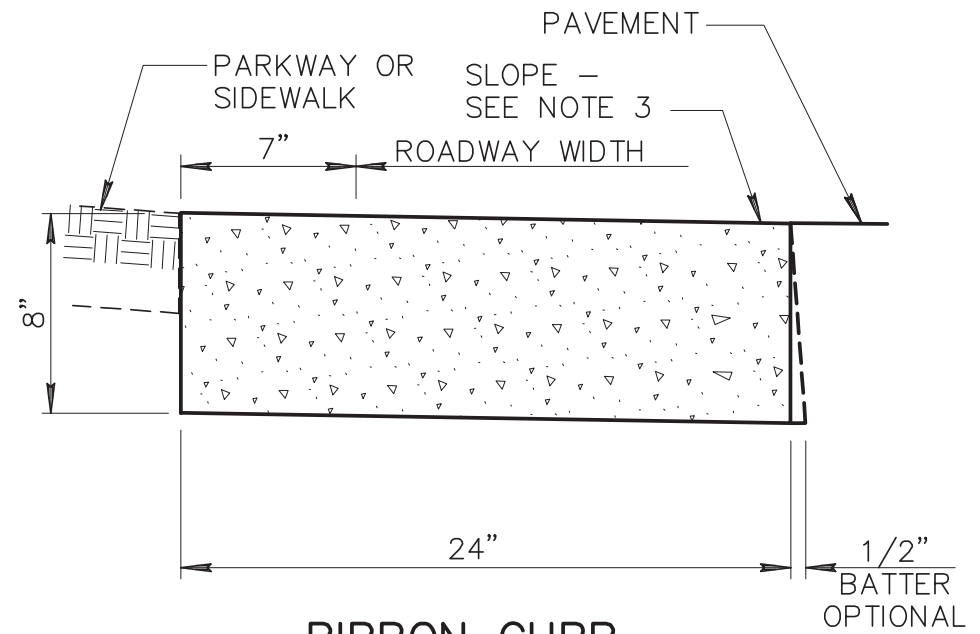
206-3



**VERTICAL CURB AND GUTTER
(TYPE A)**

NOTES: (TYPE A)

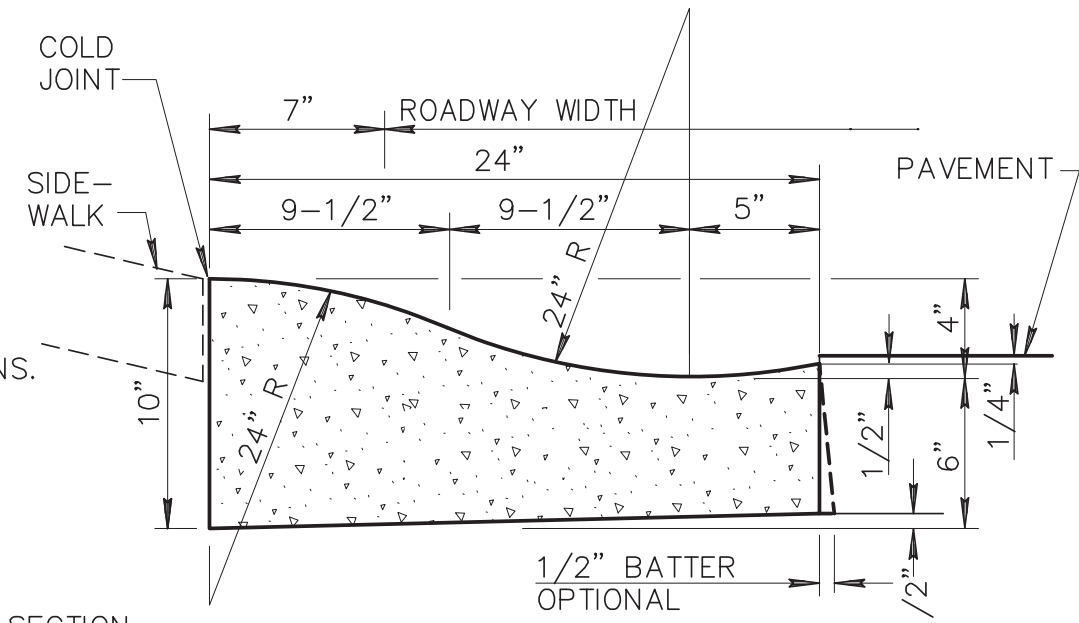
1. ALL EXPOSED SURFACES TO BE TROWEL FINISHED EXCEPT AS SHOWN. SEE SECT. 340.
2. H=6" OR AS SPECIFIED ON PLANS.
3. CONTRACTION JOINT SPACING 10' MAXIMUM.
4. EXPANSION JOINTS AS PER SECT. 340.
5. CLASS 'B' CONCRETE PER 725.
6. WHEN THE ADJACENT PAVEMENT SECTION SLOPES AWAY FROM THE GUTTER, THE SLOPE OF THE GUTTER PAN SHALL MATCH PAVEMENT CROSS SLOPE.



**RIBBON CURB
(TYPE B)**

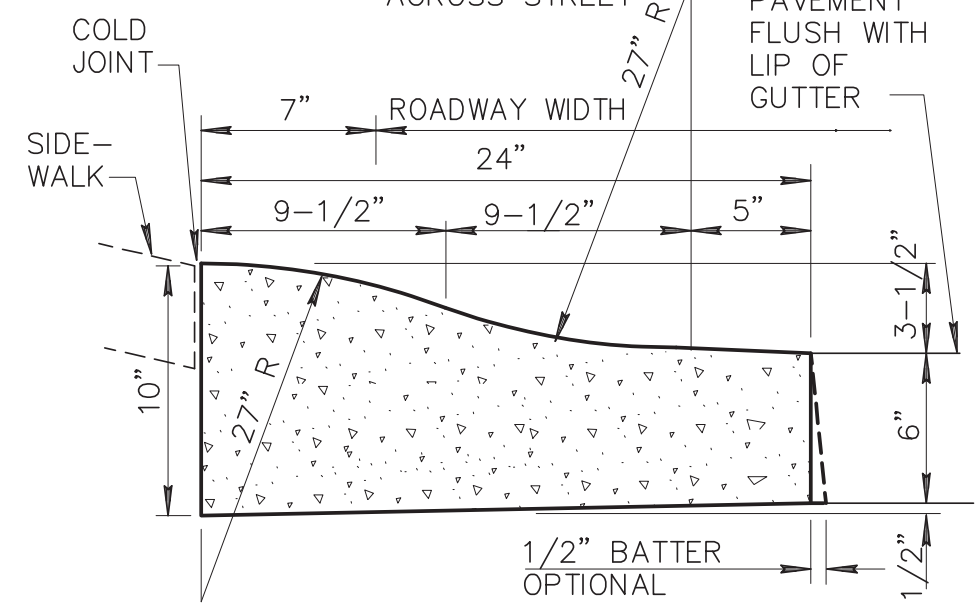
NOTES: (TYPE B)

1. CONSTRUCT CURB AND INSTALL 1/2" MASTIC EXPANSION JOINTS, A.S.T.M. D-1751. SECT. 340.
2. BROOM FINISH ALL SURFACES.
3. RIBBON CURB MAY SLOPE TOWARDS PAVEMENT OR PARKWAY AS INDICATED ON PLANS.
4. CONTRACTION JOINT SPACING 10' MAXIMUM.
5. CONCRETE SHALL BE CLASS 'B' PER SECT. 725 AND INSTALLED PER SECT. 505.



**ROLL CURB AND GUTTER
(TYPE C)**

SPECIAL SECT. USE FOR HIGH SIDE CURB WITH SHEET DRAINAGE ACROSS STREET

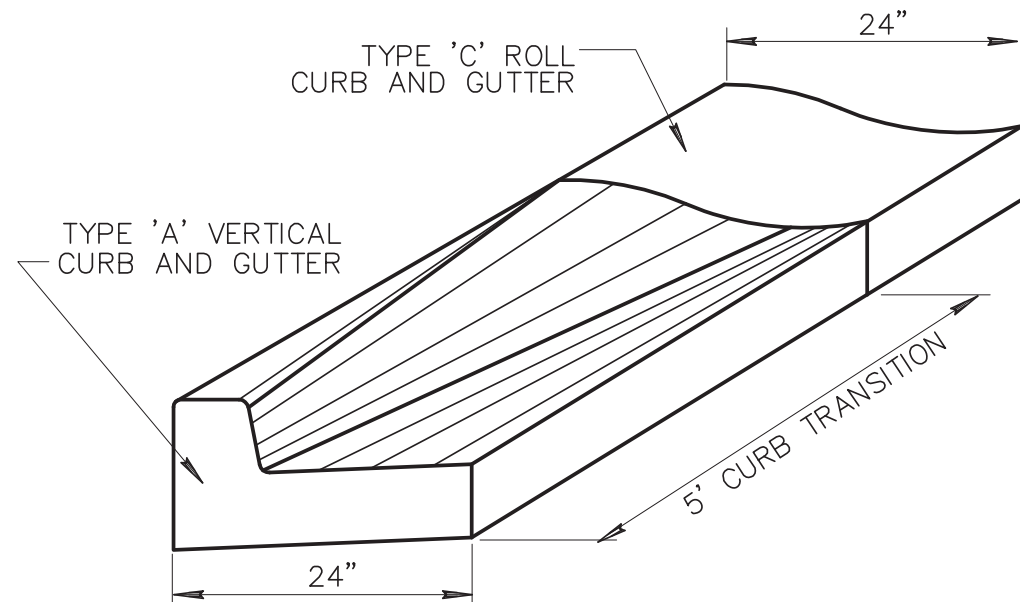


(TYPE D)

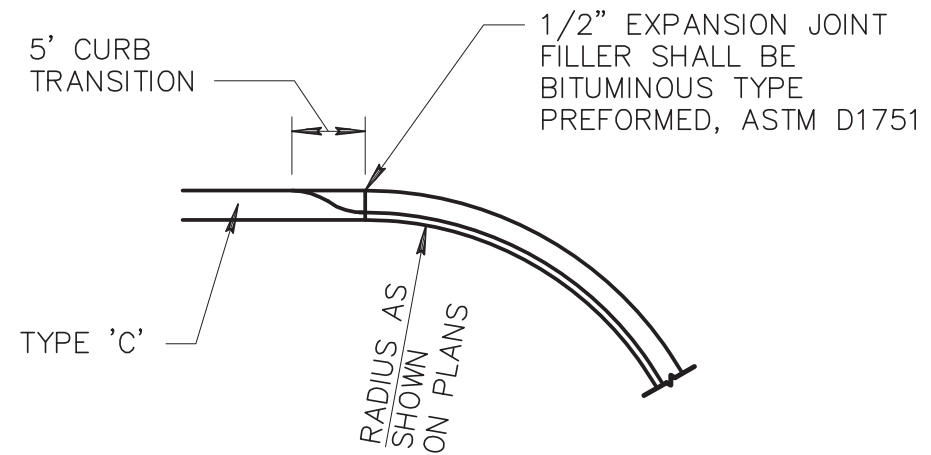
NOTES: (C & D)

1. ALL WORK AND MATERIALS SHALL CONFORM TO SECT. 304, 505 AND 725. BROOM FINISH TO EXPOSED SURFACE.
2. CONTRACTION JOINT SPACING 10' MAXIMUM.
3. EXPANSION JOINTS AS PER SECT. 340.
4. CLASS 'B' CONCRETE PER 725.

CURB TRANSITION TYPE 'A' TO TYPE 'C'



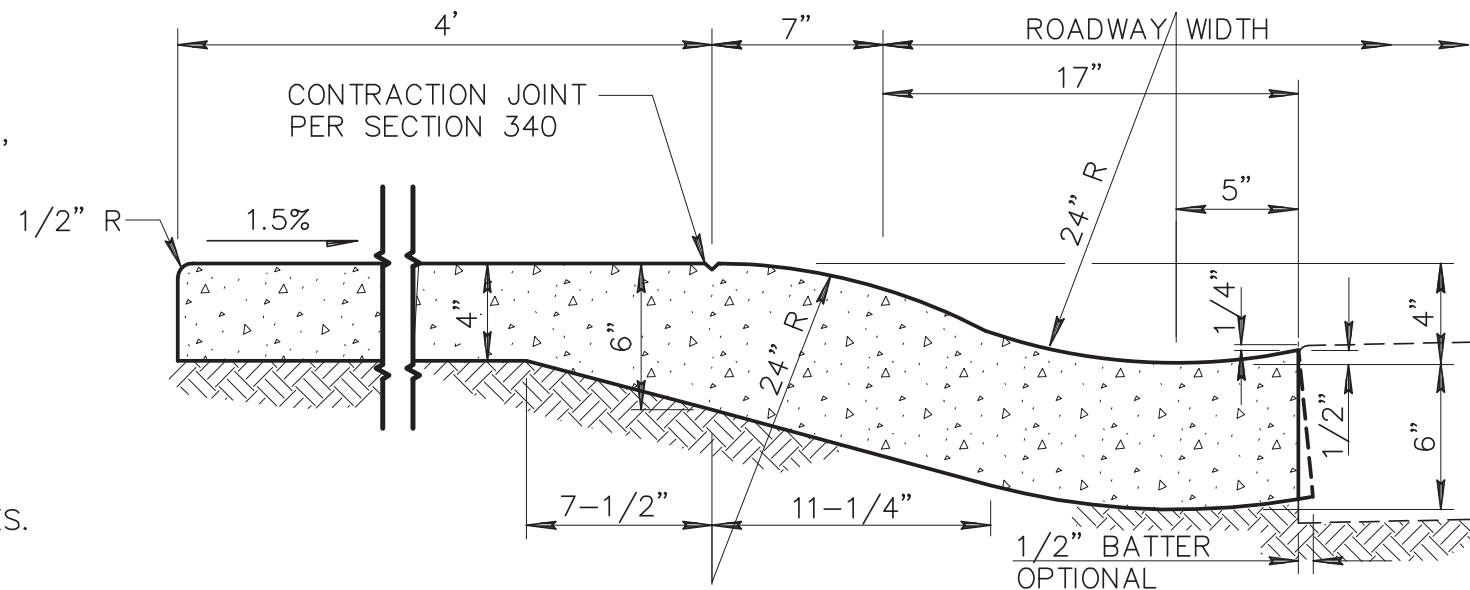
CURB AND GUTTER TRANSITION



NOTES: (CURB AND GUTTER TRANSITIONS)

1. TRANSITIONS WILL BE PAID FOR AS THE PREDOMINANT TYPE OF CURB AND GUTTER BEING TRANSITIONED. WHEN TYPE 'A' CURB AND GUTTER ARE USED AT CURB RETURNS AND TYPE 'C' CURB AND GUTTER IS PREDOMINANTLY USED ELSEWHERE, THE TYPE 'A' TO TYPE 'C' TRANSITIONS SHALL BE MEASURED AND PAID FOR AS TYPE 'C' CURB AND GUTTER.
2. WHERE PROPOSED CONSTRUCTION IS TO BE CONNECTED TO EXISTING CURB AND GUTTER, THE TRANSITION SHALL BE INDICATED ON PLANS.
3. CLASS 'B' CONCRETE PER SECTION 725.
4. TRANSITION BETWEEN TYPICAL SECTIONS SHALL BE ACCOMPLISHED BY THE USE OF DIRECT STRAIGHT LINE TRANSITIONS OF THE FLOW LINE AND OTHER SURFACE FEATURES.

INTEGRAL ROLL CURB, GUTTER AND SIDEWALK



NOTES: (INTEGRAL ROLL CURB, GUTTER AND SIDEWALK)

1. CONCRETE TO BE MONOLITHIC POUR. EXPOSED SURFACE FINISH AS PER SIDEWALK AND GUTTER DETAIL.
2. CONTRACTION JOINT SPACING 5' MAXIMUM.
3. EXPANSION JOINTS PER SECTION 340.
4. CLASS 'B' CONCRETE PER SECTION 725.

DETAIL NO.

221



STANDARD DETAIL
ENGLISH

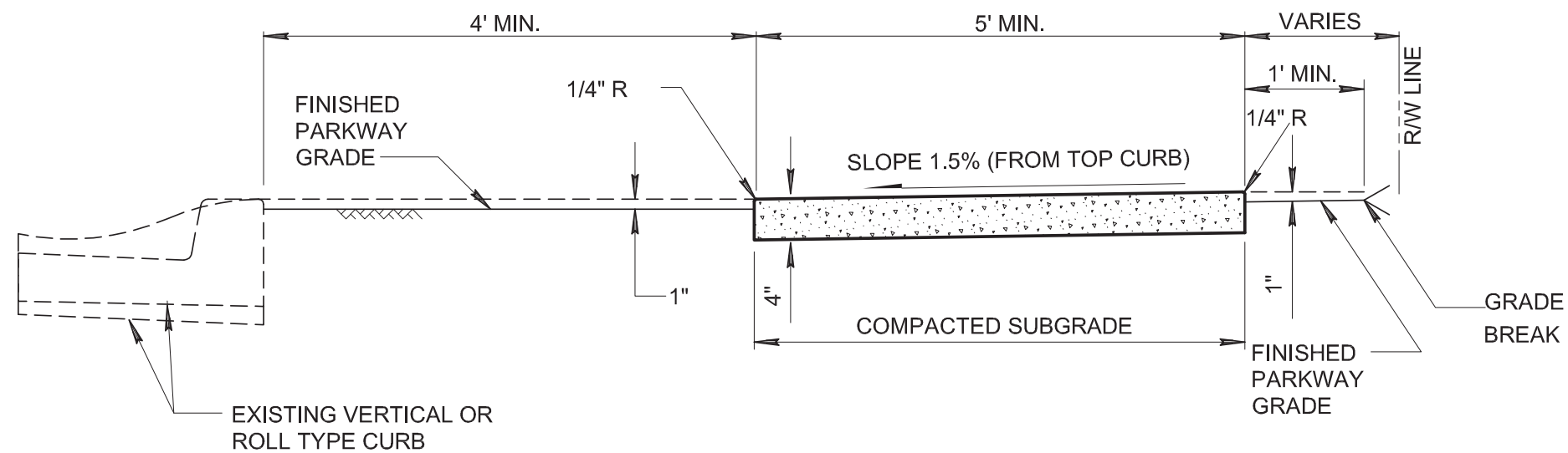
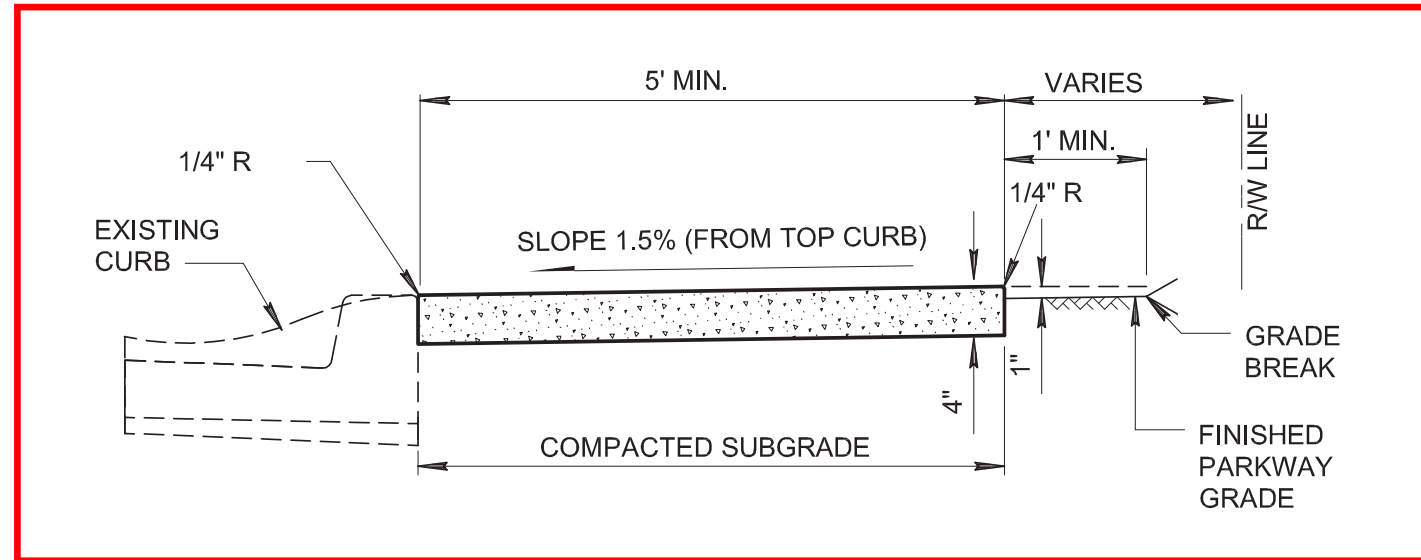
**CURB AND GUTTER TRANSITION TYPE A TO TYPE C
INTEGRAL ROLL CURB, GUTTER AND SIDEWALK**

REVISED

01-01-2014

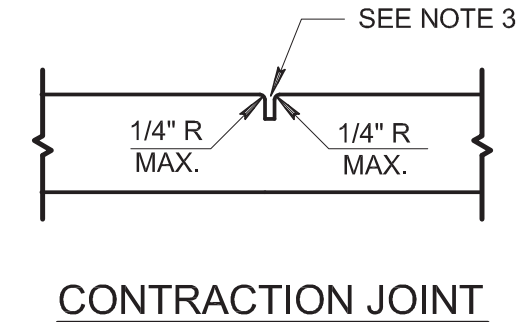
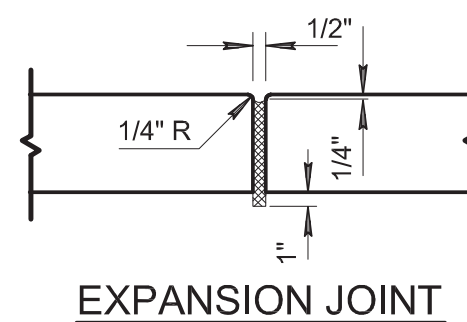
DETAIL NO.

221



NOTES:

1. SIDEWALK CONSTRUCTION SHALL CONFORM TO SECTION 340.
2. EXPANSION JOINTS SHALL BE 1/2" BITUMINOUS TYPE PREFORMED EXPANSION JOINT FILLER, PER SECTION 729.
3. LARGE AGGREGATE, IN CONTRACTION JOINT SHALL BE SEPARATED TO A DEPTH OF 1", FINISH DEPTH SHALL BE A MINIMUM OF 3/4".
4. EXPANSION JOINTS SHALL CONFORM TO SECTION 340, BE INSTALLED PRIOR TO CONCRETE PLACEMENT, AND AT A MAXIMUM SPACING OF 50'.
5. CONCRETE SHALL BE CLASS 'B' PER SECTION 725.
6. WHEN SIDEWALK AND ADJACENT CURB ARE CONSTRUCTED MONOLITHICALLY, ALL EXPANSION AND CONTRACTION JOINTS SHALL EXTEND ACROSS THE CURB.



DETAIL NO.
230

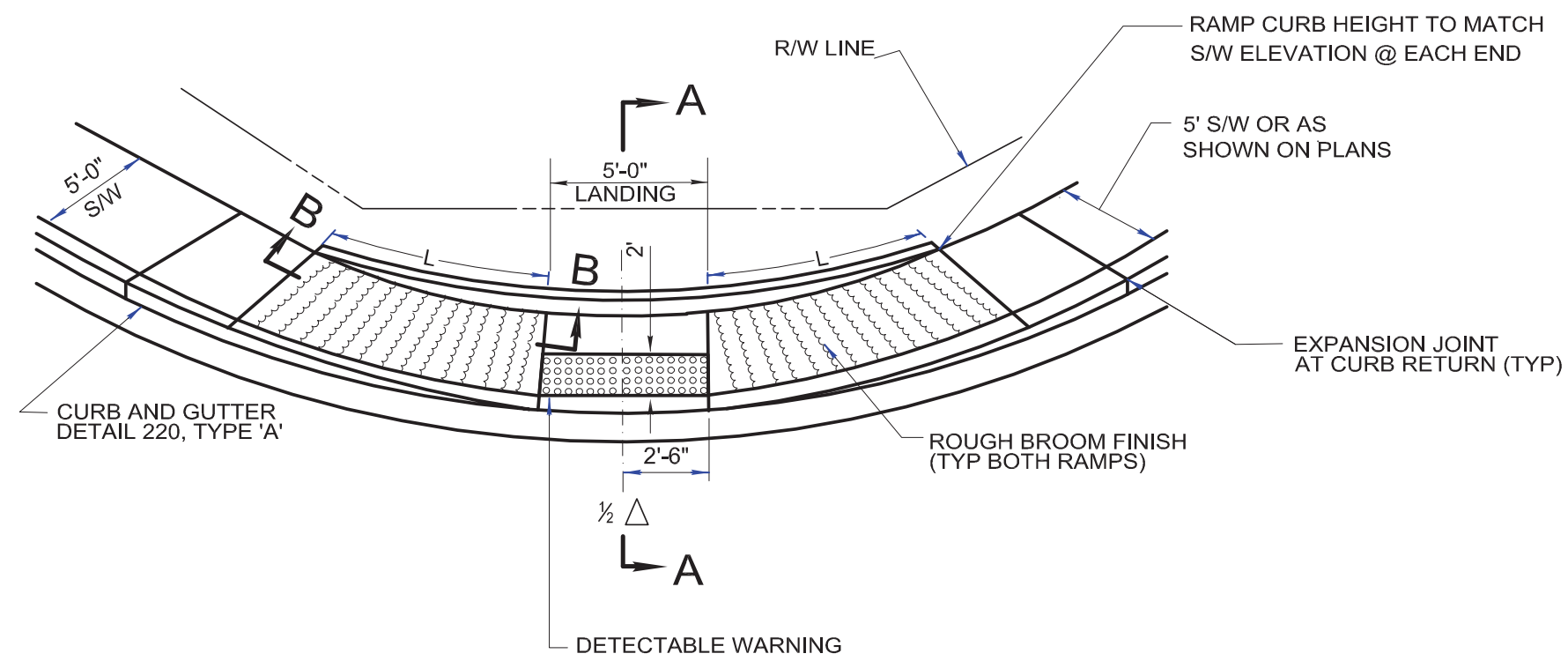


STANDARD DETAIL
ENGLISH

SIDEWALKS

REVISED
01-01-2014

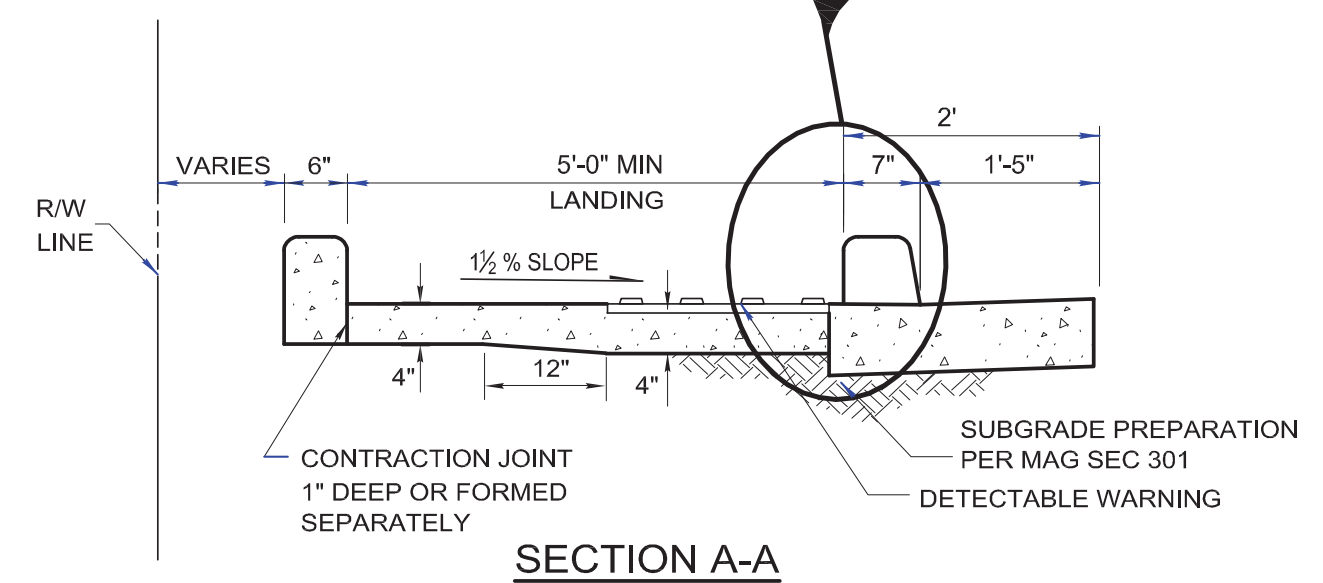
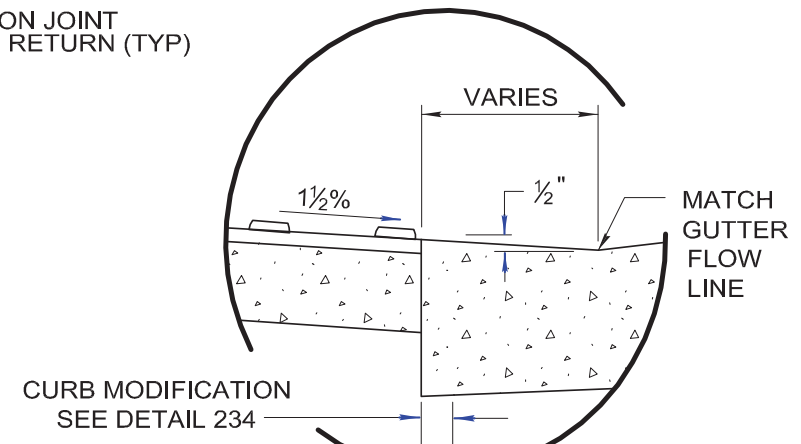
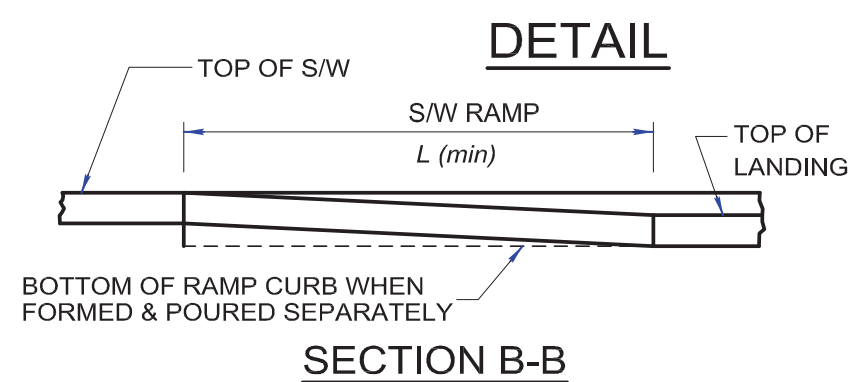
DETAIL NO.
230



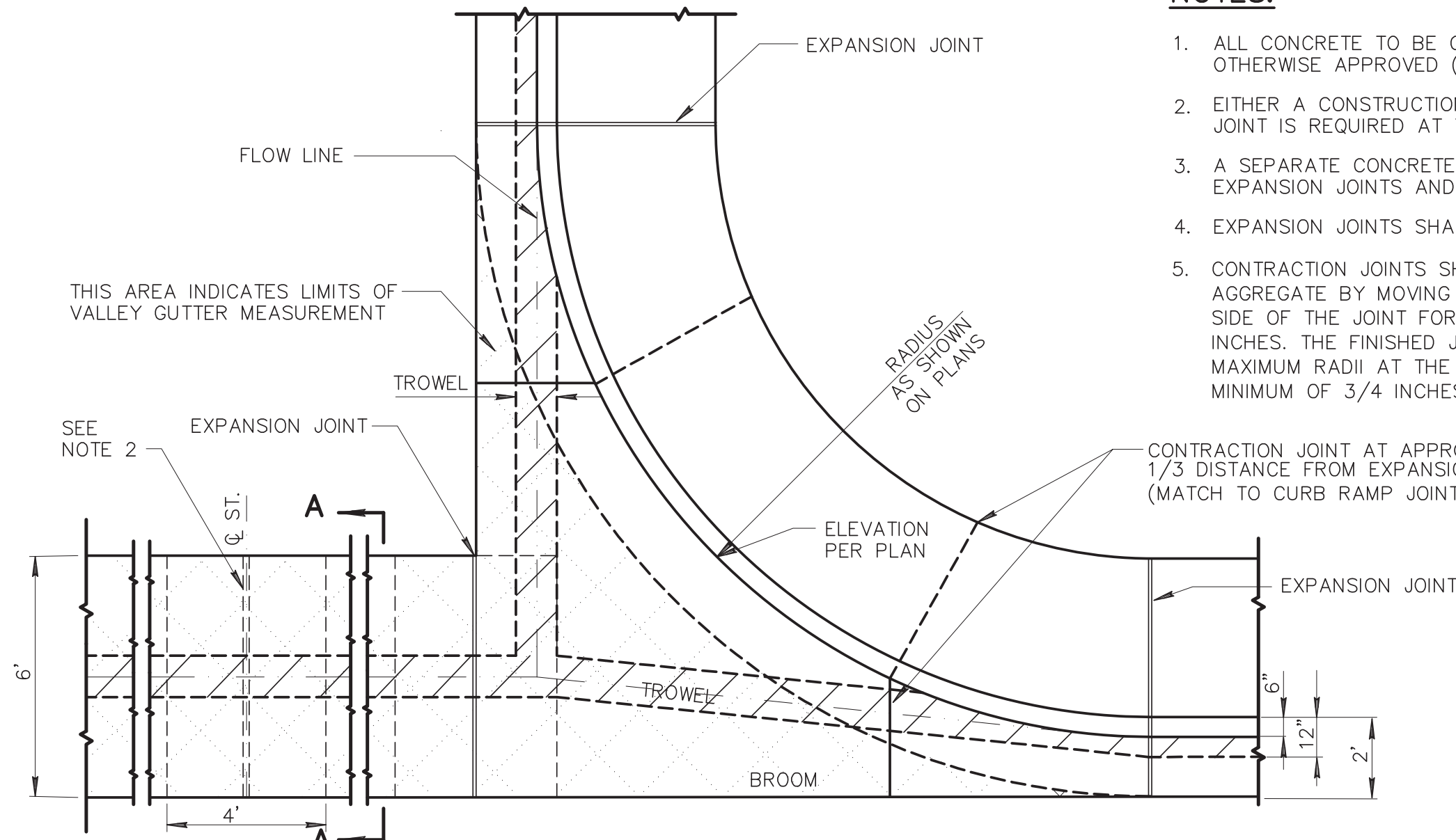
- NOTES:**
1. CLASS 'B' CONCRETE CONSTRUCTION PER SECTION 725.
 2. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENT.
 3. RAMP LONGITUDINAL SLOPE SHALL BE 12:1 OR FLATTER.
 4. RAMP CROSS SLOPE SHALL BE 1½%.
 5. DETAIL IS ADA COMPLIANT FOR CURB RADII ≥ 20' AND GUTTER SLOPE ≤ 2.0%.

CURB HEIGHT	L (min)	
	$S_G \leq 1\%$	$S_G \leq 2\%$
4"	5.0'	6.0'
6"	7.0'	8.5'

S_G = MAXIMUM GUTTER SLOPE WITHIN RAMP LIMITS

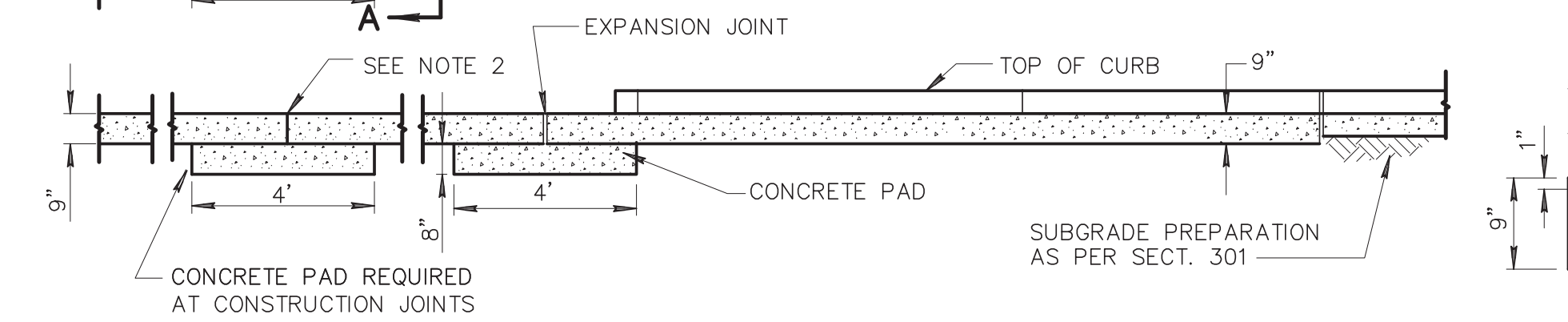


TYPE 'C'

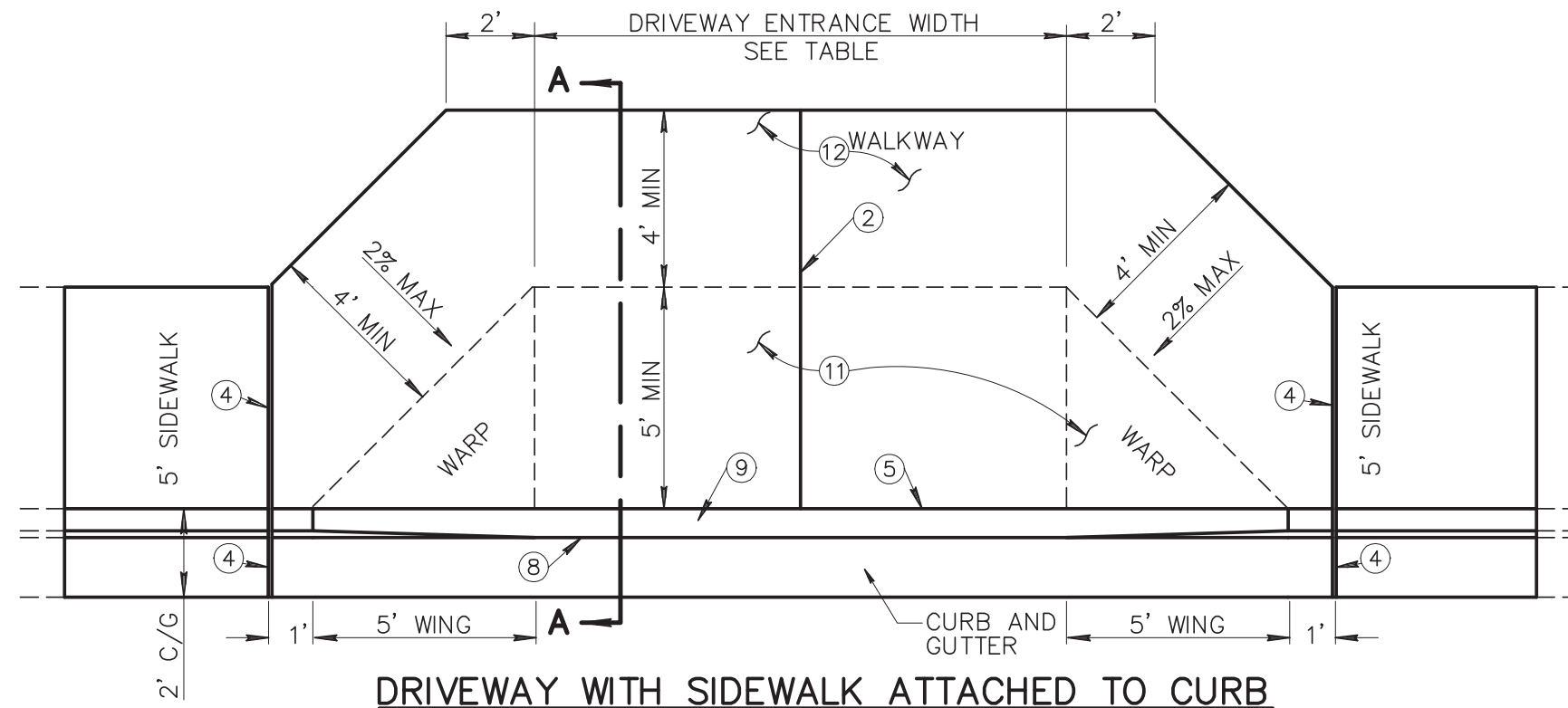


NOTES:

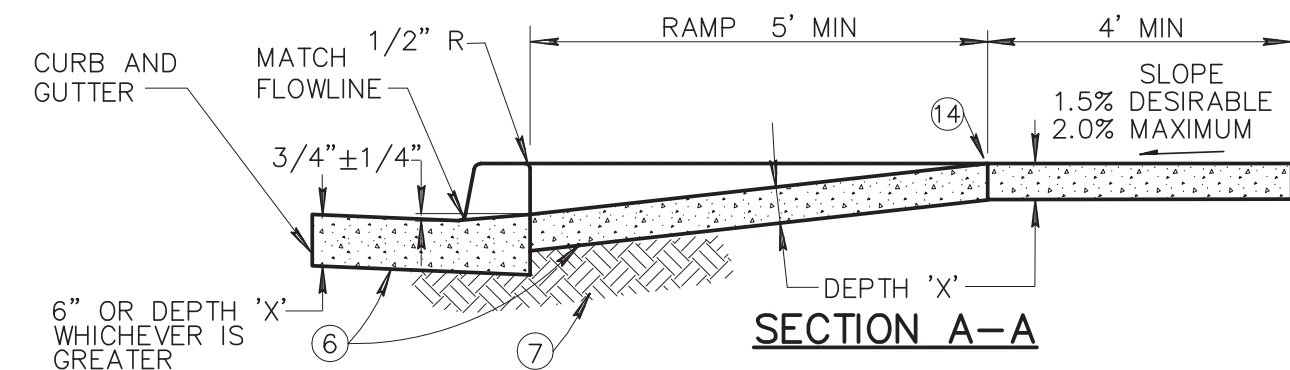
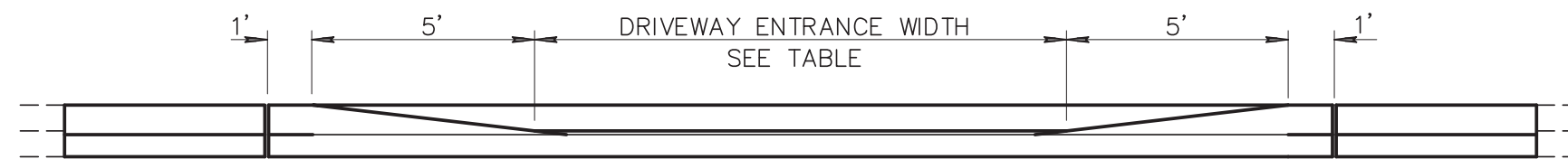
1. ALL CONCRETE TO BE CLASS 'A' UNLESS OTHERWISE APPROVED (SECTION 725).
2. EITHER A CONSTRUCTION JOINT OR CONTRACTION JOINT IS REQUIRED AT THE STREET CENTERLINE.
3. A SEPARATE CONCRETE PAD IS REQUIRED AT ALL EXPANSION JOINTS AND ALL CONSTRUCTION JOINTS.
4. EXPANSION JOINTS SHALL COMFORM TO SECTION 340.
5. CONTRACTION JOINTS SHALL SEPARATE LARGE AGGREGATE BY MOVING THE AGGREGATE TO EITHER SIDE OF THE JOINT FOR A MINIMUM DEPTH OF 2½ INCHES. THE FINISHED JOINT SHALL HAVE 1/4 INCH MAXIMUM RADII AT THE TOP SURFACE AND BE A MINIMUM OF 3/4 INCHES OF DEPTH.



**SECTION A-A
VALLEY GUTTER**



DRIVEWAY WITH SIDEWALK ATTACHED TO CURB



SECTION A-A

NOTES:

1. DEPRESSED CURB SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE TYPE OF CURB USED AT THAT LOCATION.
2. CONTRACTION JOINT(S) FOR DRIVEWAY ENTRANCE: WIDTH LESS THAN 22' NONE REQUIRED; WIDTH GREATER THAN 22' AND LESS THAN 30' LOCATE SINGLE JOINT ON D/W CENTERLINE; WIDTH OF 30' OR GREATER LOCATE TWO JOINTS TO EQUALLY DIVIDE THE DRIVEWAY ENTRANCE WIDTH.
3. DETAIL GEOMETRICS ARE BASED ON A CURB HEIGHT OF SIX INCHES (6"), AN ATTACHED SIDEWALK WIDTH OF FIVE FEET (5'), AND A DRIVEWAY RAMP LENGTH NOT EXCEEDING SIX FEET (6'). GEOMETRIC MODIFICATIONS MAY BE REQUIRED WHEN CONDITIONS ARE MODIFIED.
4. 1/2-INCH EXPANSION JOINTS SHALL COMPLY WITH SECTION 340.
5. BACK OF CURB - CONSTRUCTION JOINT.
6. CONCRETE CLASS AS NOTED IN TABLE. CONCRETE PER SECTION 725.
7. SUBGRADE PREPARATION, SECT. 301.
8. FLOW LINE OF GUTTER.
9. DEPRESSED CURB.
10. SECT. A-A AND ELEVATION: D/W SHOWN WITH VERTICAL CURB AND GUTTER, ROLL TYPE CURB AND GUTTER TREATED SIMILARLY.
11. ROUGH BROOM FINISH FULL WIDTH OF RAMP AND WINGS.
12. TROWEL AND USE LIGHT HAIR BROOM FINISH FOR WALKWAY AREA.
13. 'DRIVEWAY ENTRANCE WIDTH' IS THE DRIVEWAY WIDTH PLUS ADDITIONAL WIDENING REQUIRED BY THE LOCAL JURISDICTION.
14. ELEVATION AT TOP OF DRIVEWAY RAMP SHALL BE EQUAL TO OR HIGHER THAN NORMAL CURB ELEVATION.

COMMERCIAL AND INDUSTRIAL					RESIDENTIAL				
DRIVEWAY ENTRANCE WIDTH	MIN.	MAX.	CLASS	DEPTH 'X'	DRIVEWAY ENTRANCE WIDTH	MIN.	MAX.	CLASS	DEPTH 'X'
COMMERCIAL	* 16'	40'	A	9"	MAJOR STREET	16'	30'	B	5"
INDUSTRIAL	* 16'	40'	A	9"	COLLECTOR STREET	* 12'	30'	B	5"
* 24' MIN. FOR TWO WAY TRAFFIC					LOCAL STREET	12'	30'	B	5"
					* 16' DESIRABLE				

DETAIL NO.
250-2

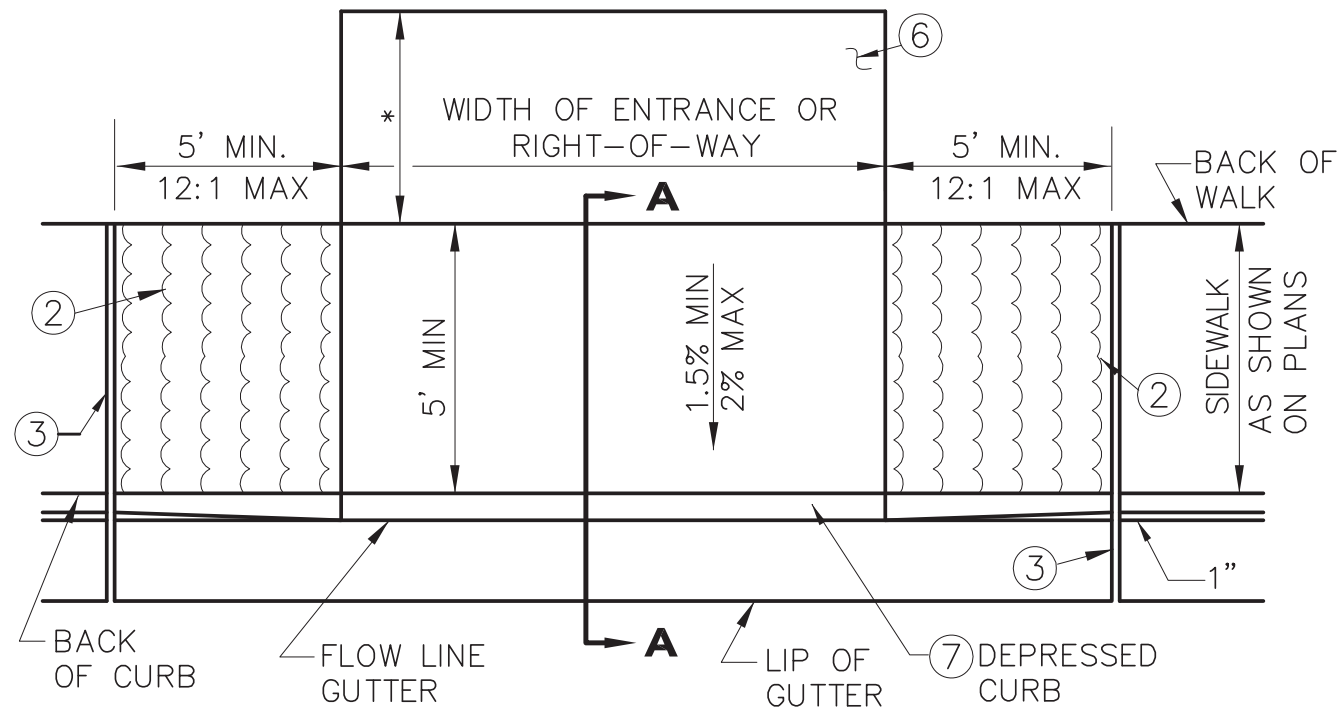


STANDARD DETAIL
ENGLISH

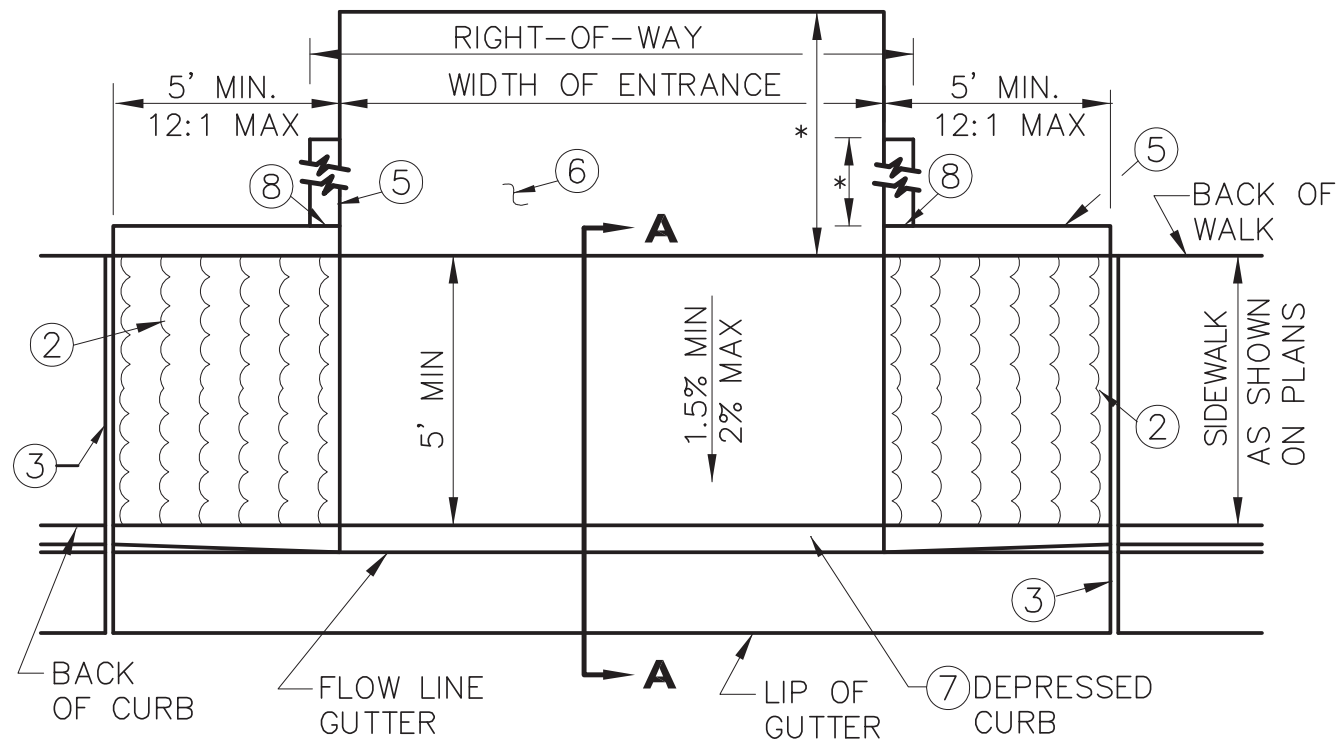
**DRIVEWAY ENTRANCES WITH
SIDEWALK ATTACHED TO CURB**

REVISED
01-01-2013

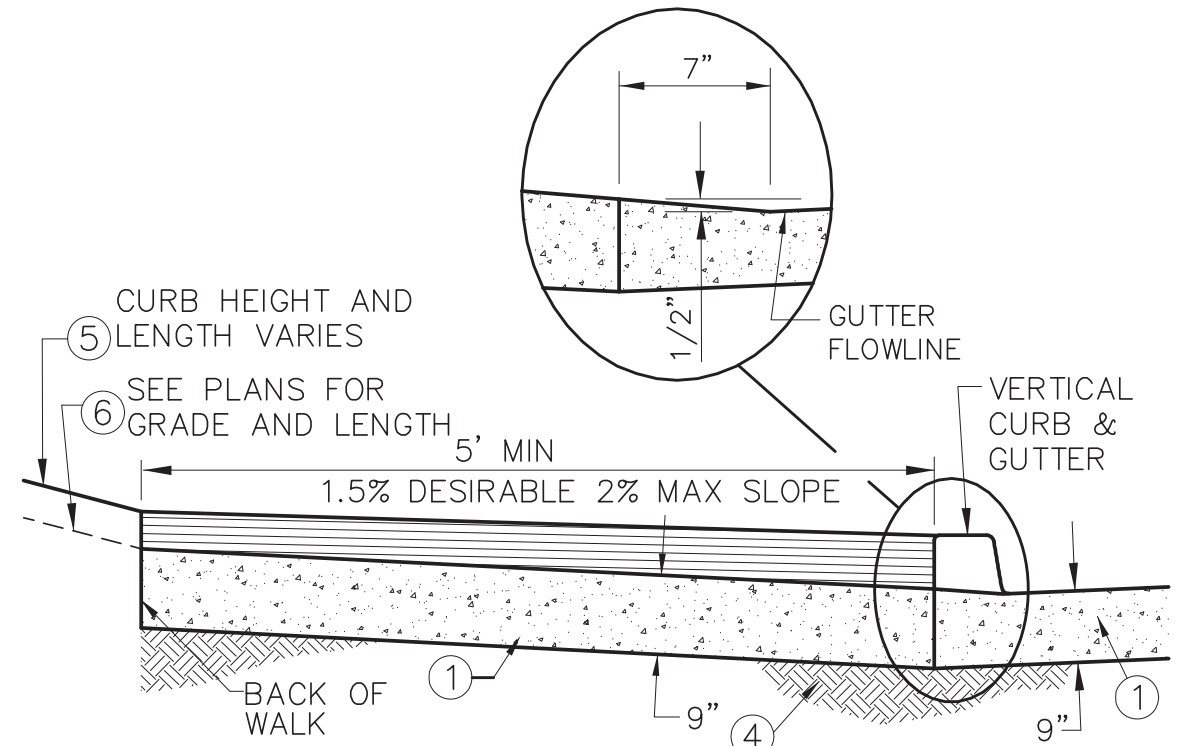
DETAIL NO.
250-2



TYPE A - WITHOUT RETAINING CURB
 *SEE PLANS FOR ALLEY SURFACING REQUIREMENTS



TYPE B - WITH RETAINING CURB
 * SEE PLANS FOR RETAINING CURB LENGTHS, TOP OF CURB ELEVATIONS, AND ALLEY SURFACING REQUIREMENTS



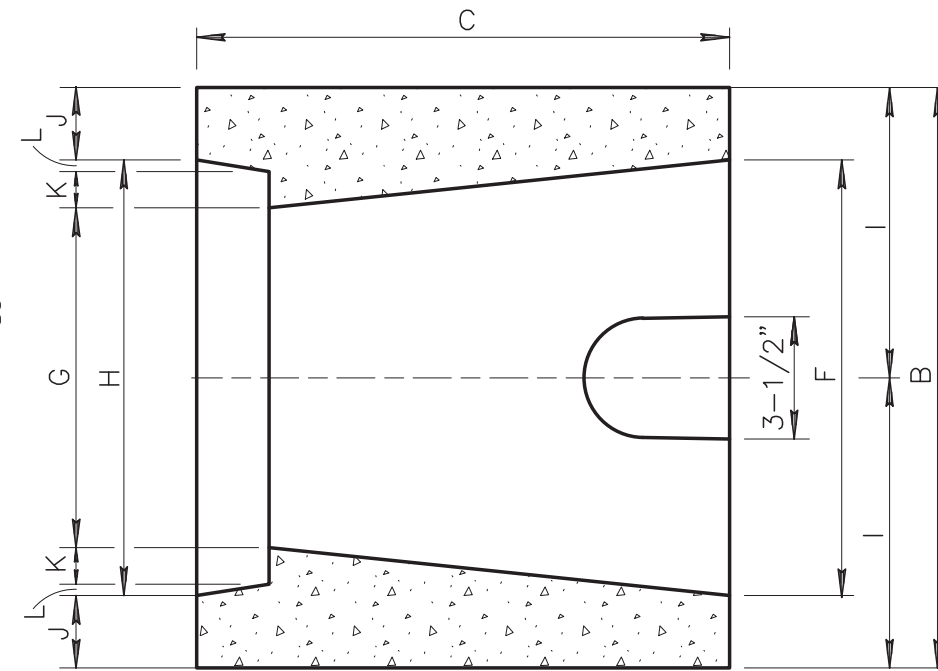
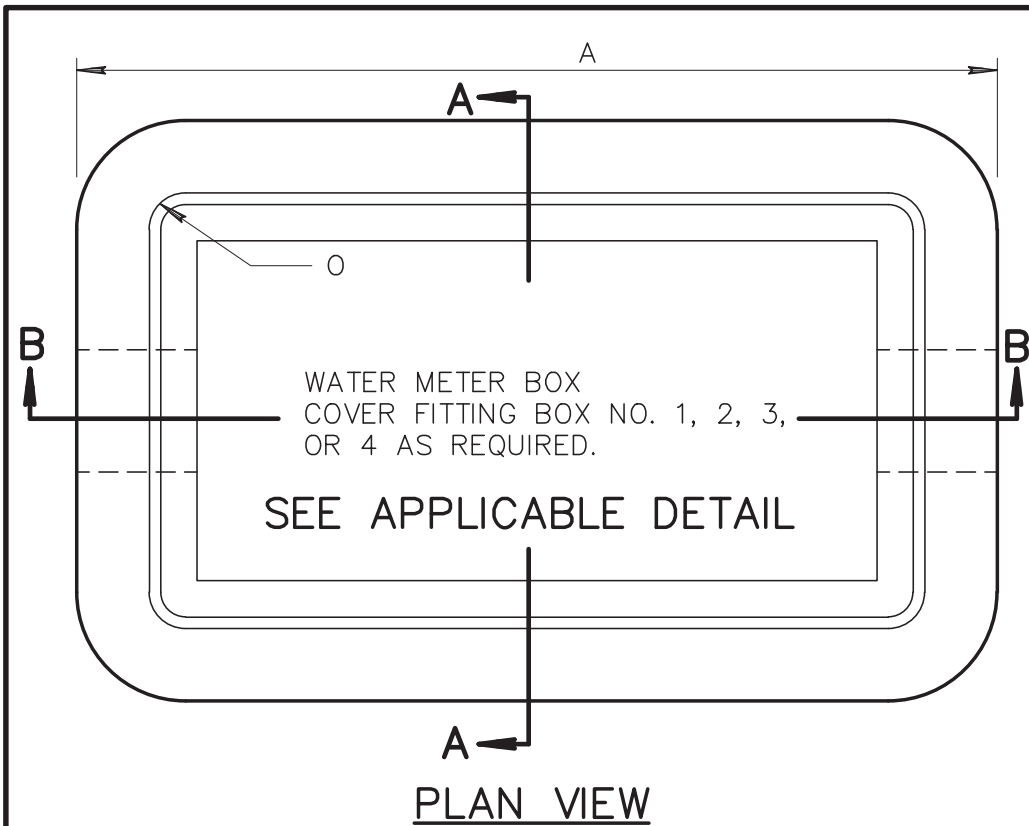
SECTION A-A



ELEVATION

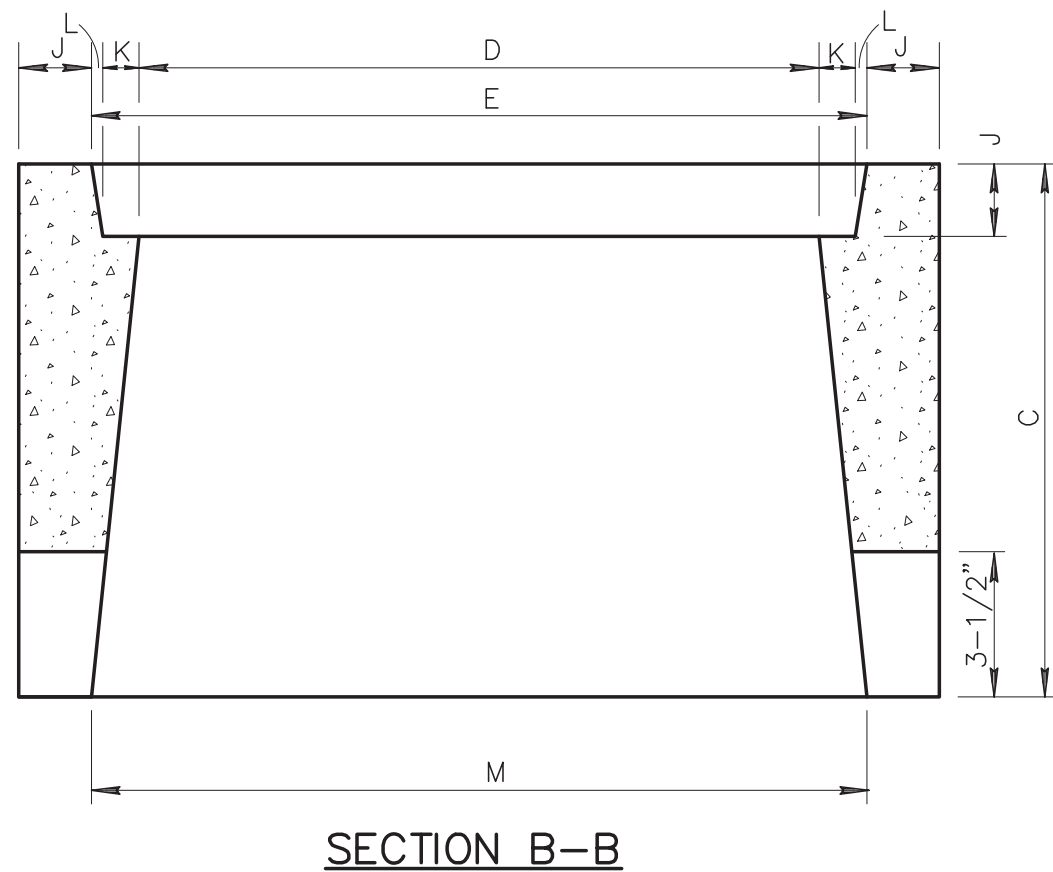
NOTES:

- ① CLASS "A" CONCRETE PER SECTION 725.
- ② LIMITS OF HEAVY ROUGH BROOM FINISH.
- ③ EXPANSION JOINTS PER SECTION 340.
- ④ SUBGRADE PREPARATION PER SECTION 301.
- ⑤ SINGLE CURB PER DETAIL 222, TYPE "B".
- ⑥ ALLEY SURFACING PER PLANS.
- ⑦ DEPRESSED CURB SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE TYPE OF CURB USED AT THAT LOCATION.
- ⑧ CONTROL JOINT.



NOTES:

1. THE METER BOXES SHALL CONFORM TO DIMENSIONS AS SHOWN AND SHALL NOT VARY MORE THAN A 1/16 OF AN INCH
2. THE METER BOXES SHALL BE MADE OF CLASS 'AA' CONCRETE PER SECT. 725. ACCEPTABLE ALTERNATIVE MATERIALS INCLUDE "POLYMER CONCRETE", "SHEET MOLDED COMPOUND" (SMC), "BULK MOLDED COMPOUND" (BMC), AND POLYETHYLENE WITH POLYMER CONCRETE FRAME
3. MINIMUM VERTICAL LOAD RATING PER TIER 5 ANSI/SCTE77 TESTING STANDARD FOR GRADE LEVEL ENCLOSURES AND COVERS
4. FOR LOAD REQUIREMENTS ABOVE 5,000 POUNDS USE DETAIL 319, TRAFFIC RATED BOX AND COVER



METER BOX DIMENSIONS				
DIMS	BOX NUMBER			
	1	2	3	4
A	18-1/2"	25"	28-3/8"	33-1/8"
B	11-3/4"	17-1/4"	17-5/8"	22-3/8"
C	12"	12"	12"	12"
D	14"	20"	24"	27-3/4"
E	16"	22-1/8"	26-1/4"	30-5/8"
F	9-1/4"	14-1/2"	15-1/8"	19-3/4"
G	7"	12-1/2"	13"	17"
H	9-1/4"	14-1/4"	15-1/4"	19-3/4"
I	5-7/8"	8-5/8"	8-7/8"	11-1/8"
J	1-1/2"	1-1/2"	2-1/4"	1-1/2"
K	3/4"	1/2"	3/4"	5/8"
L	1/4"	1/2"	1/2"	5/8"
M	16"	21-7/8"	26"	30-1/2"
O	1/2"	1/2"	1/2"	5/8"
	5/8" OR 3/4" METER	1" METER	1-1/2" METER	2" METER

DETAIL NO.
320

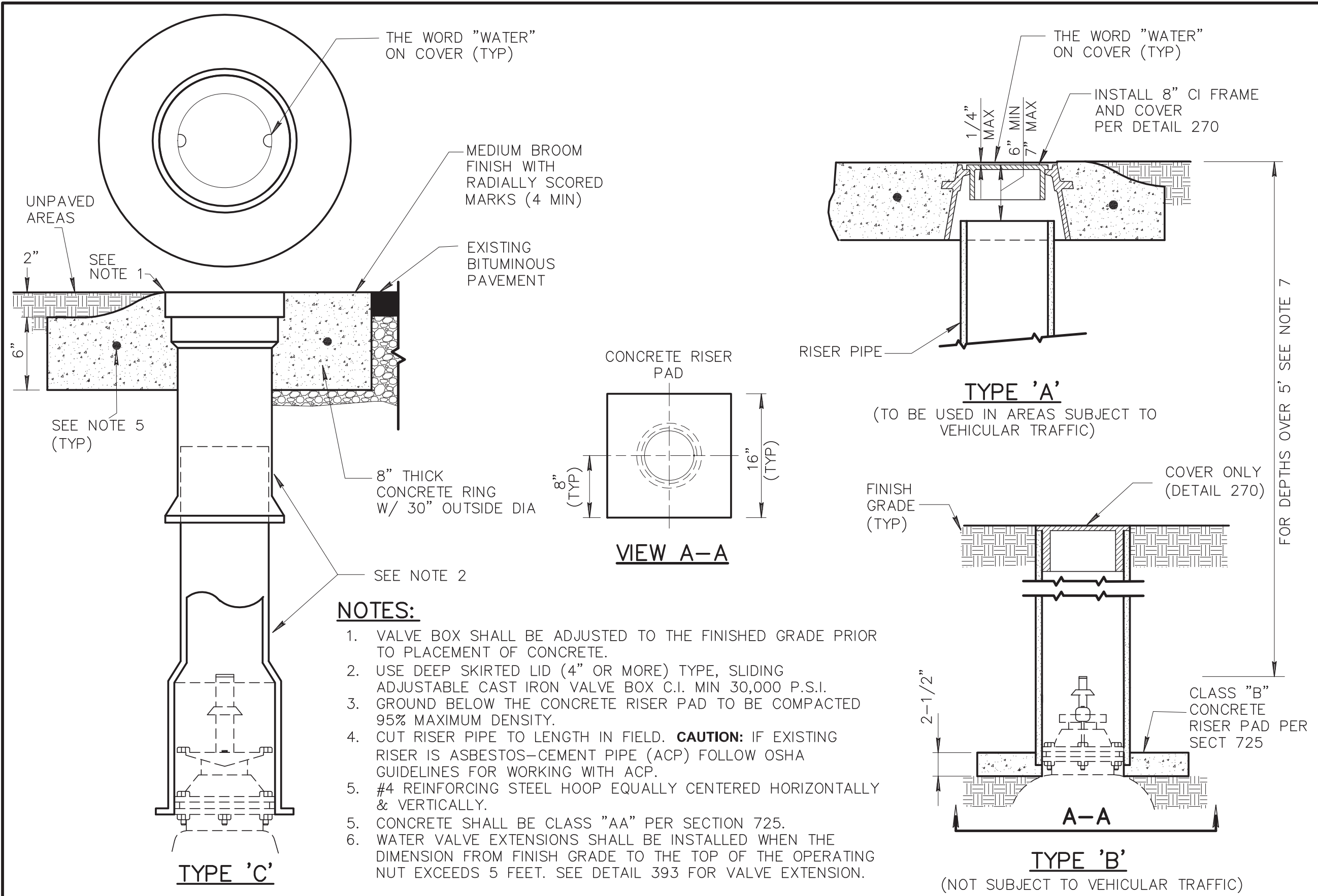


STANDARD DETAIL
ENGLISH

**NON TRAFFIC RATED
WATER METER BOXES**

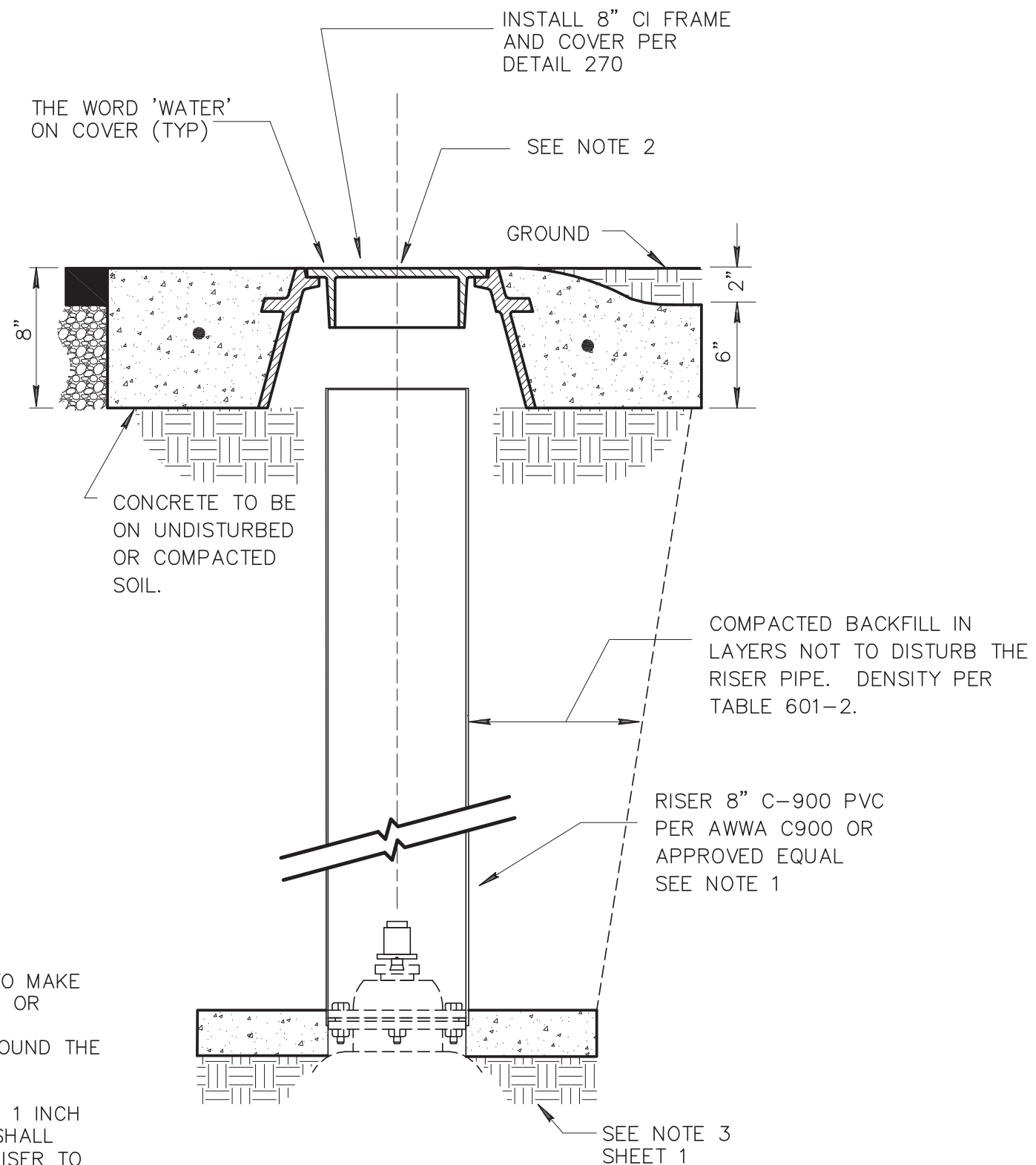
REVISED
01-01-2017

DETAIL NO.
320



NOTES:

1. VALVE BOX SHALL BE ADJUSTED TO THE FINISHED GRADE PRIOR TO PLACEMENT OF CONCRETE.
2. USE DEEP SKIRTED LID (4" OR MORE) TYPE, SLIDING ADJUSTABLE CAST IRON VALVE BOX C.I. MIN 30,000 P.S.I.
3. GROUND BELOW THE CONCRETE RISER PAD TO BE COMPACTED 95% MAXIMUM DENSITY.
4. CUT RISER PIPE TO LENGTH IN FIELD. **CAUTION:** IF EXISTING RISER IS ASBESTOS-CEMENT PIPE (ACP) FOLLOW OSHA GUIDELINES FOR WORKING WITH ACP.
5. #4 REINFORCING STEEL HOOP EQUALLY CENTERED HORIZONTALLY & VERTICALLY.
5. CONCRETE SHALL BE CLASS "AA" PER SECTION 725.
6. WATER VALVE EXTENSIONS SHALL BE INSTALLED WHEN THE DIMENSION FROM FINISH GRADE TO THE TOP OF THE OPERATING NUT EXCEEDS 5 FEET. SEE DETAIL 393 FOR VALVE EXTENSION.



NOTES:

1. IF TWO OR MORE SECTIONS OF PIPE ARE USED TO MAKE THE VALVE BOX RISER, THEY SHALL BE COUPLED OR BONDED TO FORM DEBRIS-TIGHT JOINTS.
2. VALVE BOX SHALL BE PLUMB AND CENTERED AROUND THE OPERATING NUT.
3. THE TOP OF THE VALVE SHALL BE KEPT CLEAN.
4. THE TOP OF THE RISER SHALL BE A MINIMUM OF 1 INCH ABOVE UNDISTURBED OR COMPACTED SOIL AND SHALL HAVE A MINIMUM CLEARANCE OF 2" FROM THE RISER TO THE LID SKIRT.

DRAFT

391-2



STANDARD DETAIL
ENGLISH

**VALVE BOX INSTALLATION
AND GRADE ADJUSTMENT**

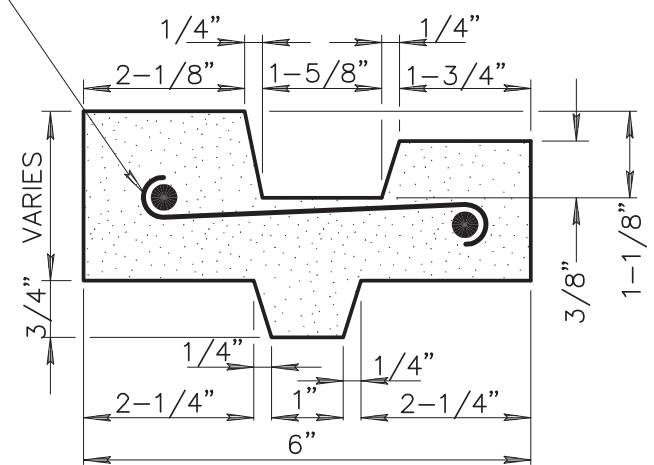
REVISED

01-01-2017

DETAIL NO.

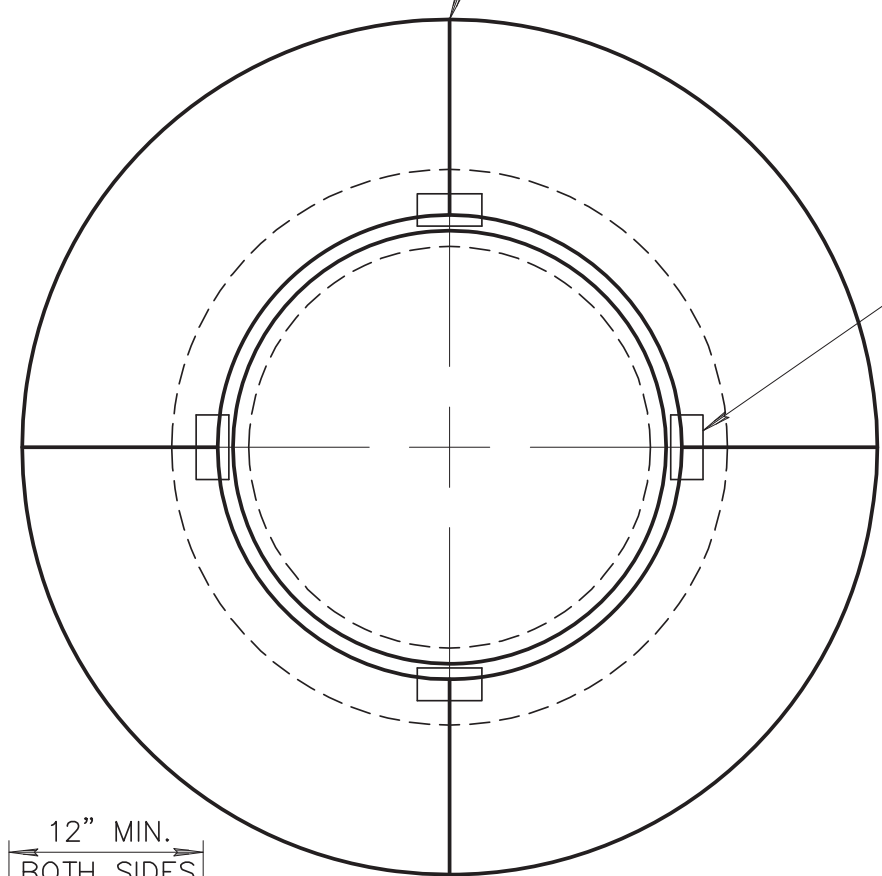
391-2

(2) NO.2 HOOPS FOR 4" RING TIED WITH NO. 4 A.S.& W. GAUGE WIRE. 6" & 8" RING REQUIRE (4) NO. 2 HOOPS.



ADJUSTING RING DETAIL

MEDIUM BROOM FINISH WITH RADIALLY SCORED MARKS (4 MIN.)



NOTES:

1. CONTRACTORS SHALL ADJUST ALL MANHOLE RINGS AND COVERS, INCLUDING MANHOLES OUTSIDE OF THE PAVEMENT.
2. ADJUSTMENT SHALL BE CONSTRUCTED PER MAG SECTION 345.
3. MANHOLE COATINGS PER AGENCY
4. GROUT SHALL BE USED BETWEEN FRAME AND ADJUSTING RING TO ACHIEVE WATER TIGHTNESS.

SPACER TYPE	REQUIRED THICKNESS
BRICK	GREATER THAN 2"
4"X2" STEEL SPACER	1/2" TO 2"
GROUT	LESS THAN 1/2"

