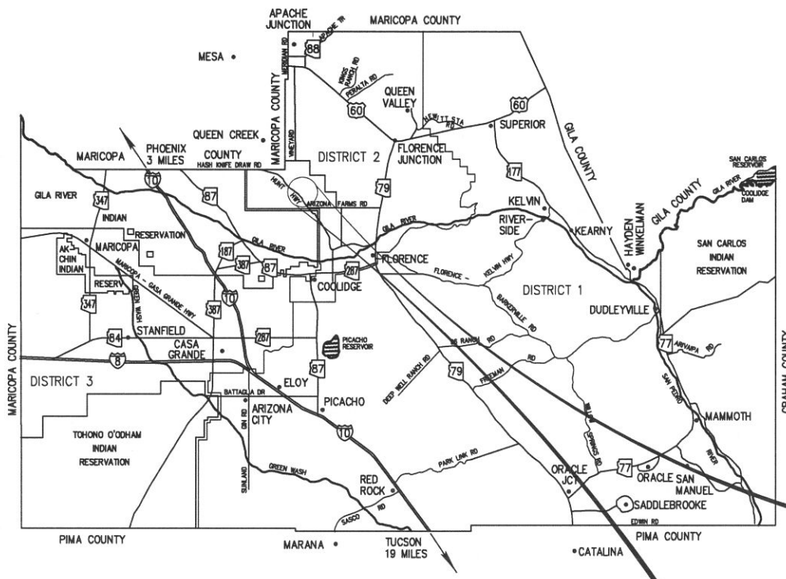
PINAL COUNTY
DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH

F.H.W.A. REGION	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 62170001			

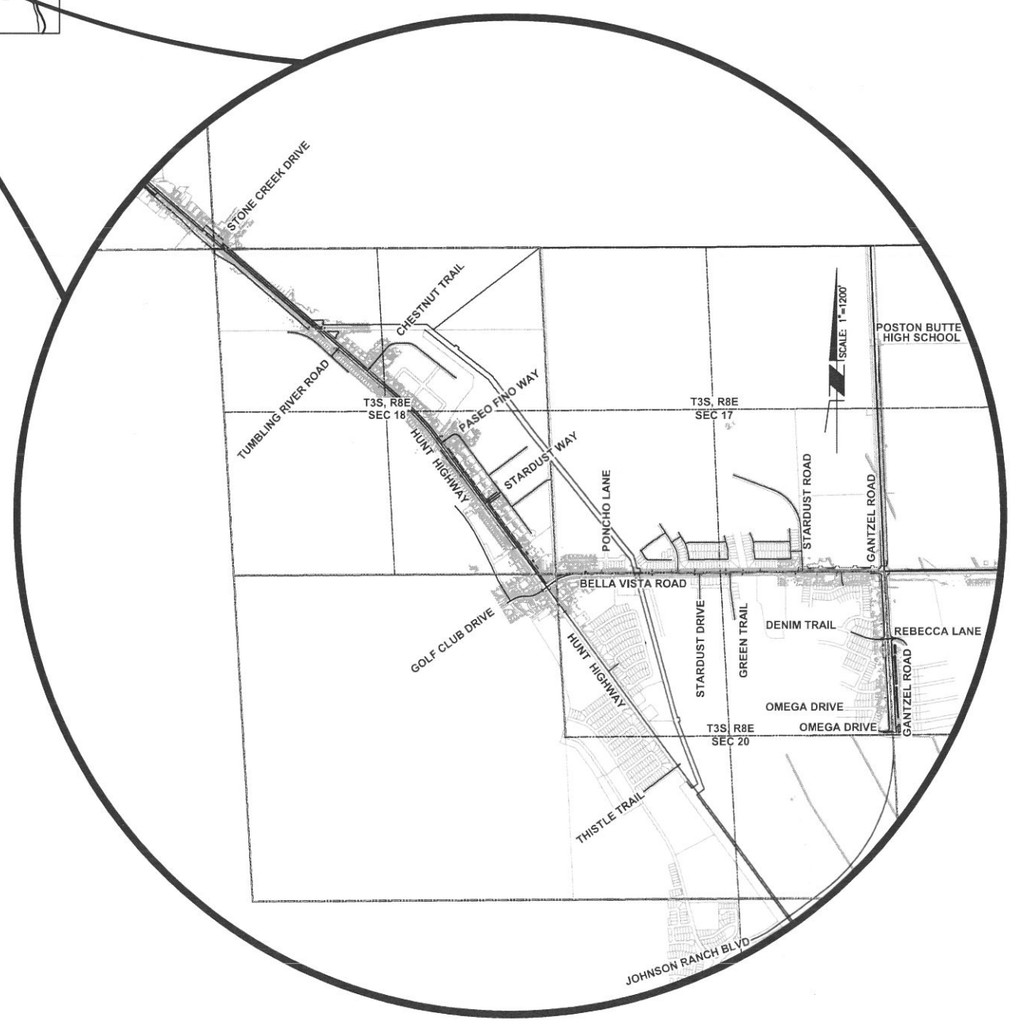
DF	DR	CSS
DESIGNED	DRAWN	CHECKED
DATE: 9/2015	DATE: 9/2015	DATE: 9/2015

CARLOS SANCHEZ SORIA 46279 ARIZONA, U.S.A. Date Signed 9/4/15 Expires 6/30/17

HUNT HIGHWAY WIDENING PHASE 3 &
GARY ROAD TO BELLA VISTA ROAD
DESIGN PROJECT #62952173, CONSTRUCTION PROJECT #62972173
GANTZEL ROAD - PHASE D-I
OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL (PROJECT #62170001)
BELLA VISTA ROAD RECONSTRUCTION
HUNT HIGHWAY TO GANTZEL ROAD



PINAL COUNTY



PINAL • COUNTY
wide open opportunity

PINAL COUNTY BOARD OF SUPERVISORS

DISTRICT ONE – PETE RIOS
DISTRICT TWO – CHERYL CHASE
DISTRICT THREE – STEVE MILLER
DISTRICT FOUR – ANTHONY SMITH
DISTRICT FIVE – TODD HOUSE

MANAGEMENT

COUNTY MANAGER – GREG STANLEY
DIRECTOR OF PUBLIC WORKS – LOUIS ANDERSEN
COUNTY ENGINEER – SCOTT BENDER, P.E.

ESTIMATED EARTHWORK QUANTITIES (62952173)

HUNT HIGHWAY
GARY ROAD TO BELLA VISTA ROAD
(NOT TO BE USED FOR BIDDING PURPOSES, CONTRACTOR IS RESPONSIBLE TO DETERMINE HIS OWN CUT & FILL QUANTITES)

	CUT (C.Y.)	FILL (C.Y.)
RAW QUANTITIES	13,166	7,180
NET EXPORT:	5,986	

NOTE: SITE AREA IS APPROX. 19.5 ACRES

ESTIMATED EARTHWORK QUANTITIES (62170001)

GANTZEL ROAD
OMEGA DRIVE TO POSTON HIGH SCHOOL
&
BELLA VISTA ROAD
HUNT HIGHWAY TO GANTZEL ROAD
(NOT TO BE USED FOR BIDDING PURPOSES, CONTRACTOR IS RESPONSIBLE TO DETERMINE HIS OWN CUT & FILL QUANTITES)

	CUT (C.Y.)	FILL (C.Y.)
RAW QUANTITIES	7,468	13,738
NET IMPORT:		6,270

NOTE: SITE AREA IS APPROX. 11.5 ACRES

LENGTH OF PROJECT

20,233 LF = 3.83 Miles

APPROVED BY

Scott E Bender 9/8/2015
PINAL COUNTY ENGINEER — DATE

"AS-BUILT CERTIFICATION"

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR

REGISTRATION NUMBER — DATE

ENGINEER

TY LIN INTERNATIONAL
CONTACT: CARLOS SANCHEZ SORIA, P.E.
60 EAST RIO SALADO PARKWAY
SUITE 501
TEMPE, ARIZONA 85281 USA
PHONE (480) 968-8814
FAX (480) 921-0002

PINAL COUNTY

CONTACT: CELESTE PEMBERTON, CFM, CPM
AREA 2 PROJECT MANAGER
PINAL COUNTY PUBLIC WORKS
PHONE (520) 866-6402
FAX (520) 866-7943

SHEET INDEX

1	COVER SHEET (1)
2	GENERAL NOTES AND LEGEND SHEET (1)
3	KEY MAP SHEET (1)
4	GEOMETRIC CONTROL SHEET (1)
5–16	TYPICAL SECTIONS SHEETS (12)
17–35	DETAILS SHEET (19)
36–42	CITY OF MESA GAS RELOCATION SHEETS (7)
43–44	QUANTITIES (2)
45–73	PAVING PLAN AND PROFILE SHEETS (29)
74–80	DRIVEWAY PROFILE SHEET (7)
81	RETENTION BASIN DETAIL SHEET (1)
82	RETAINING WALL PLAN AND PROFILE SHEET (1)
83–84	MEDIAN DETAIL SHEETS (2)
85–93	DRAINAGE PLAN AND PROFILE SHEETS (9)
94–98	CONNECTOR PIPE PROFILE SHEETS (5)
99–106	SCUPPER PROFILE SHEETS (8)
107–109	RETENTION BASIN DETAIL SHEETS (3)
110	BOX CULVERT DETAIL SHEET (1)
111–125	SIGNING AND PAVEMENT MARKING SHEETS (15)
126–131	SIGN SUMMARY SHEET (6)
132–142	CONSTRUCTION SEQUENCING SHEETS (11)
143–166	TRAFFIC CONTROL SHEETS (24)
167–174	EROSION CONTROL SHEETS (8)
175–176	TRAFFIC SIGNAL PLANS (2)
1–5	JOHNSON UTILITIES 12" WATER RELOCATION SHEETS (5)

Call at least two full working days before you begin excavation.
ARIZONA 811
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Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

HUNT HIGHWAY, GARY ROAD TO BELLA VISTA ROAD (62952173)
GANTZEL ROAD, OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL (62170001)

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

LEGEND AND SYMBOLS

12"W	EXISTING WATER
8"RW	EXISTING RECLAIMED WATER
10"S	EXISTING SEWER
8"FM	EXISTING FORCE MAIN
4"PE G	EXISTING GAS
OHL	EXISTING OVERHEAD ELECTRIC
12kvOHE	EXISTING OVERHEAD ELECTRIC
69kvOHE	EXISTING OVERHEAD ELECTRIC
T	EXISTING TELEPHONE
CTV	EXISTING CABLE TV
FO	EXISTING FIBER OPTIC
JUT	EXISTING JOINT TRENCH
42"IR	EXISTING IRRIGATION
	EXISTING WATER VALVE
	EXISTING SEWER MANHOLE
1002	EXISTING CONTOURS
	EXISTING IMPROVEMENTS
	SURVEY MONUMENT
	SIDEWALK
FL=	FLOW LINE ELEVATION
VG=	VALLEY GUTTER ELEVATION
	EX PAVEMENT TO REMAIN
	EX CONCRETE
	PAVEMENT MILL AND OVERLAY
	NEW PAVEMENT
	RIP RAP
	GUARDRAIL
C	DAYLIGHT CUT LINE
F	DAYLIGHT FILL LINE
	FLOW LINE
	HANDRAIL
STA P=	CENTERLINE STATIONING PAVEMENT ELEVATION
STA TC= G=	CENTERLINE STATIONING TOP OF CURB ELEVATION GUTTER ELEVATION

ABBREVIATIONS

AC	ASPHALT CONCRETE
ARV	AIR RELEASE VALVE
B/C	BACK OF CURB
BCR	BEGIN CURB RETURN
BFP	BACK FLOW PREVENTER
℄,CL	CENTER LINE
C&G	CURB AND GUTTER
C	CONCRETE ELEVATION
EO	EMERGENCY OUTFALL
ESMT	EASEMENT
E/P	EDGE OF PAVEMENT
EL, ELEV	ELEVATION
ECR	END CURB RETURN
EP, E/P	EDGE OF PAVEMENT
EX, EXIST.	EXISTING
F/C	FACE OF CURB
FL	FLOW LINE
GB	GRADE BREAK
H	HEIGHT, HORIZONTAL
HWE	HIGH WATER ELEVATION
ICV	IRRIGATION CONTROL VALVE
INV=, IE=	INVERT ELEVATION
LT	LEFT
L	LENGTH
L/G	LIP OF GUTTER
MJ	MECHANICAL JOINT
N.P.I.	NON PAY ITEM
NTS	NOT TO SCALE
OFF	OFFSET
PMTR	POLYMER MODIFIED TERMINAL BLEND RUBBERIZED MIX DESIGNS
PVMT	PAVEMENT
PH	PHASE, POTHOLE
PCC	POINT OF COMPOUND CURVATURE
PI	POINT OF INTERSECTION
PR	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PROP	PROPOSED
PUE	PUBLIC UTILITY EASEMENT
R	RADIUS
RA	RUBBERIZED ASPHALT
RT	RIGHT
R/W	RIGHT OF WAY
RW	RECLAIMED WATER
SHLD	SHOULDER
S/W	SIDEWALK
TCE, T.C.E.	TEMPORARY
TEMP	TEMPORARY CONSTRUCTION EASEMENT
TW	TOP OF WALL
V/G	VALLEY GUTTER
VERT, V	VERTICAL
V_P	VOLUME PROVIDED
V_R	VOLUME REQUIRED
WM	WATER METER
W.V.	WATER VALVE

REMOVAL / RELOCATE BY OTHERS

1. SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.
2. CABLE TV/FO BOX, UTILITY MARKER TO BE RELOCATED BY OTHERS.
3. TELEPHONE PEDESTAL, MH, UTILITY MARKER TO BE RELOCATED BY OTHERS.
4. ELECTRIC BOX/CONDUIT TO BE RELOCATED BY OTHERS.
5. POWER POLE TO BE RELOCATED BY OTHERS.
6. GAS MARKER TO BE RELOCATED BY OTHERS.
7. NEW MAGMA IRRIGATION & DRAINAGE DISTRICT IRRIGATION CANAL TO BE TILED BY OTHERS.
8. AIR RELEASE VALVE TO BE RELOCATED BY OTHERS.
9. WATER MARKER TO BE RELOCATED BY OTHERS.
10. SEWER MARKER TO BE RELOCATED BY OTHERS.
11. LANDSCAPE IRRIGATION BOX, VALVE TO BE RELOCATED BY OTHERS.
12. POWER POLE TO BE REMOVED BY OTHERS.
13. CHAINLINK FENCE & GATE TO BE REMOVED BY JOHNSON UTILITIES FORCES.
14. WATER METER TO BE RELOCATED/REMOVED BY OTHERS

PINAL COUNTY GENERAL NOTES

1. THE CONTRACTOR SHALL OBTAIN A PINAL COUNTY RIGHT OF WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT OF WAY. CONTACT PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST 7 WORKING DAYS IN ADVANCE OF ANY WORK.
2. CONTRACTOR SHALL SUBMIT ANY MODIFICATIONS TO THE APPROVED TRAFFIC CONTROL PLAN TO ENGINEER AT LEAST THREE (3) WORKING DAYS PRIOR TO WORK FOR REVIEW AND APPROVAL.
3. ANY WORK ON ARTERIAL OR COLLECTOR ROADS SHALL REQUIRE AN OFF-DUTY PINAL COUNTY SHERIFF'S OFFICER FOR TRAFFIC CONTROL. CONTACT SHALL BE MADE THROUGH THE PCSO REPRESENTATIVE.
4. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH MAG STANDARD DETAILS AND SPECIFICATIONS.
5. CONTRACTOR IS RESPONSIBLE FOR BLUE STAKE MARKING DAILY AS CONSTRUCTION IS IN PROGRESS.
6. ALL RESIDENTS TO BE NOTIFIED IN PERSON 24 HOURS PRIOR TO DRIVEWAY CROSSING.
7. TRAFFIC CONTROL AND BARRICADING SHALL BE ACCORDING TO THESE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR PINAL COUNTY REQUIREMENTS.
8. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISHED GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION.
9. DRAINAGE PLAN SHALL BE IN ACCORDANCE WITH THE CURRENT PINAL COUNTY DRAINAGE ORDINANCE AND DRAINAGE MANUAL, AUGUST 2004.
10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EARTH MOVING PERMIT FROM PINAL COUNTY AIR QUALITY CONTROL AND THE EPA, AND FOR COMPLYING WITH THEIR REQUIREMENTS FOR DUST CONTROL.
11. AN EROSION CONTROL PLAN IS INCLUDED AS PART OF THIS CONSTRUCTION PLAN SET AND SHALL BE USED BY THE CONTRACTOR TO DEVELOP A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
12. ANY WORK DONE IN A DRAINAGE CHANNEL OR WASH MUST COMPLY WITH STATE AND FEDERAL REGULATIONS.
13. THE CONTRACTOR SHALL VERIFY ALL BENCH MARK ELEVATIONS BEFORE USING THEM FOR CONSTRUCTION.

ENGINEER NOTES

1. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
2. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES. CALL BLUE STAKE FOR FIELD LOCATION @ 1-800-782-5348 48 HOURS PRIOR TO CONSTRUCTION.
3. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
4. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING SHALL BE REPLACED IN KIND.
5. ANY INSPECTION BY THE STATE, COUNTY, OR THE ENGINEER, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
6. CONTRACTOR TO LOCATE ALL EXISTING PROPERTY MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED BY AN ARIZONA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
7. PRIOR TO FINAL APPROVAL AND ACCEPTANCE OF THE WORK, THE CONTRACTOR WILL BE REQUIRED TO CLEAN AND REPAIR ADJACENT (OFF-PROJECT) ROADWAYS USED OR DAMAGED DURING THE COURSE OF CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL STORM DRAIN PIPES AND DRAINAGE FACILITIES FROM DAMAGE DURING ALL STAGES OF CONSTRUCTION. THE DEPTH OF COVER ON THE STORM DRAINAGE PIPE IS DESIGNED FOR FINAL GRADE, THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SIGNAGE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE PIPES.
9. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND HE WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
10. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL, TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER.
11. PRIOR TO BIDDING THE WORK THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS AND EARTHWORK QUANTITIES, IF ANY. NO CLAIM SHALL BE MADE AGAINST THE ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
12. ALL TAPERS, RADII AND TURNOUT DIMENSIONS ARE TO EDGE OF NEW PAVEMENT, UNLESS OTHERWISE NOTED. ALL STATION AND CALL OUT DISTANCES LEFT AND RIGHT REFER TO THE CONSTRUCTION CENTERLINE.
13. EXACT POINT OF MATCHING, TERMINATION AND OVERLAY MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER IF NECESSARY.
14. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES AND DRAINAGE WITHOUT INTERRUPTION THROUGHOUT THIS CONTRACT.
15. ALL MAILBOXES INTERFERING WITH CONSTRUCTION SHALL BE RELOCATED ON THE SAME PROPERTY, BY THE CONTRACTOR AS TO PROVIDE UNINTERRUPTED MAIL SERVICES.
16. ELEVATIONS SHOWN ON PLAN ARE TO FINISHED GRADE, UNLESS OTHERWISE NOTED OR SPECIFIED.

NOTE: ALL SYMBOLS OR ABBREVIATIONS MAY NOT BE USED ON PLANS.

PAVING CONSTRUCTION NOTES

1. CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.
2. FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120-1, TYPE A
3. CONSTRUCT CURB AND GUTTER TRANSITION TYPE 'A' TO TYPE 'C' PER MAG STD DET 221
4. CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6"
5. CONSTRUCT VALLEY GUTTER PER MAG STD DET 240.
6. CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE C
7. CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.
8. FURNISH AND INSTALL SWING GATES PER DETAIL ON SHEET 32.
9. ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422
10. ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A
11. SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.
12. PROTECT IN PLACE
13. CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DET 250-2, WIDTH PER PLAN
14. CONSTRUCT CONCRETE WING TYPE ALLEY ENTRANCE PER MAG STD DET 262, WIDTH PER PLAN
15. CONSTRUCT SIDEWALK RAMP PER DETAILS ON SHEETS 17-30.
16. CONSTRUCT THICKENED EDGE TYPE 'A' PER MAG STD DET 201.
17. CONSTRUCT MASONRY RETAINING WALL PER ADOT DRAWING NO. SD 7.02 ON SHEET 10 AND 11.
18. CONSTRUCT SINGLE CURB PER MAG STD DET 222, TYPE A
19. CONSTRUCT CONCRETE DRIVEWAY PER DETAIL ON SHEET 77.
20. CONCRETE PAVERS PER MAG STD DET 225 AND TYPICAL STRUCTURAL SECTION ON SHEET 6.
21. CONSTRUCT 3" AC DRIVEWAY CONNECTION ON COMPACTED GROUND.
22. FURNISH AND INSTALL 1/2" DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE GOLD.
23. FURNISHED INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.
24. CURB TERMINATION PER MODIFIED MAG STD DET 222 ON SHEET 34.
25. CONCRETE PAVERS PER MAG STD DET 225 AND TYPICAL STRUCTURAL SECTION 2.
26. CONSTRUCT MASONRY WALL PER ADOT STD DWG 8.02.
27. FURNISH AND INSTALL CHAINLINK FENCE PER MAG STD DET 160 AND ATTACH TO MASONRY WALL.
28. CONCRETE SPILLWAY PER DETAIL ON SHEET 31.
29. CONSTRUCT SAFETY EDGE PER DETAIL ON TYPICAL SECTION SHEETS.
30. FURNISH AND INSTALL MEDIAN NOSE TRANSITION PER MAG STD DET 223. 4" THICK CONCRETE PAVING LIMITS AS SHOWN ON PLANS.
31. FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120-1, TYPE B.
32. CONSTRUCT SIDEWALK RAMP PER ADOT DET C-05.30, TYPE A, AND DETAILS ON SHEETS 17-30.
33. FURNISH AND INSTALL BARRICADES PER MAG STD DET 130.
34. REMOVE AND RESTORE IRRIGATION SYSTEM PER SHEETS 33, 33A AND TECNICAL PROVISIONS & SPECIFICATIONS.
35. PAINT MEDIAN BULL NOSE PER ADOT STD DWG M-1.
36. CONSTRUCT THICKENED EDGE TYPE 'A' PER MAG STD DET 201.
37. REMOVE AND RESTORE LAWN PER SHEETS 33, 33A AND TECHNICAL PROVISIONS & SPECIFICATIONS.
38. LANDSCAPE RESTORATION PER TECHNICAL PROVISIONS & SPECIFICATIONS.

REMOVAL / RELOCATE NOTES

1. REMOVE EXISTING AC PAVEMENT.
2. REMOVE EXISTING CONCRETE CURB.
3. REMOVE EXISTING APRON & VALLEY GUTTER.
4. REMOVE EXISTING CONCRETE HEADWALL.
5. REMOVE EXISTING STORM DRAIN PIPE.
6. REMOVE AND DISPOSE OF EXISTING TREE. SEE SPECIAL PROVISIONS.
7. RELOCATE EXISTING MEMORIAL.
8. REMOVE EXISTING SIDEWALK RAMP.
9. REMOVE EXISTING RIP RAP.
10. REMOVE EXISTING SIDEWALK.
11. RELOCATE EXISTING IRRIGATION CONTROL VALVE.
12. REMOVE EXISTING FENCE.
13. REMOVE TRAFFIC BARRICADE.
14. REMOVE TRAFFIC BARRELS.

STORM DRAIN CONST. NOTES

1. FURNISH AND INSTALL 15" RGRCP, CLASS III
2. FURNISH AND INSTALL 18" RGRCP, CLASS III
3. FURNISH AND INSTALL 24" RGRCP, CLASS III
4. FURNISH AND INSTALL 30" RGRCP, CLASS III
5. FURNISH AND INSTALL PREFABRICATED CROSS, SIZE PER PLAN
6. FURNISH AND INSTALL PREFABRICATED TEE, SIZE PER PLAN
7. CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1
8. CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)
9. CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)
10. CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206
11. FURNISH & INSTALL GROUTED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.
12. CONSTRUCT CONCRETE ENCASEMENT PER MAG STD DET 404-3
13. FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206-2.
14. CONSTRUCT CONCRETE HEADWALL ('U' TYPE) MAG STD DET 501-1 & 501-2
15. FURNISH & INSTALL CONCRETE END SECTION PER MAG STD DET 545
16. FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.
17. CONNECT PROPOSED STORM DRAIN PIPE TO EXISTING BOX CULVERT PER DETAILS ON SHEET 110.
18. CONSTRUCT CONCRETE COLLAR PER MAG STD DET 505
19. INSTALL SILT FENCE PER DETAIL ES6 ON SHEET 174.
20. INSTALL SEDIMENT LOG AT STORM DRAIN PER DETAIL ES1 ON SHEET 173.
21. RETENTION BASIN PER DETAIL ON SHEET 81
22. FURNISH AND INSTALL 15" RGRCP, CLASS V
23. FURNISH AND INSTALL 18" RGRCP, CLASS V
24. CONSTRUCT PIPE PLUG PER MAG STD DET 427.

NO.	REVISION	BY	APPR	DATE

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In Maricopa County: (602) 263-1100

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

T·Y·LIN INTERNATIONAL
engineers | planners | scientists
60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GENERAL NOTES AND LEGEND SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/2/15 ARIZONA, U.S.A. Expires 3/30/17

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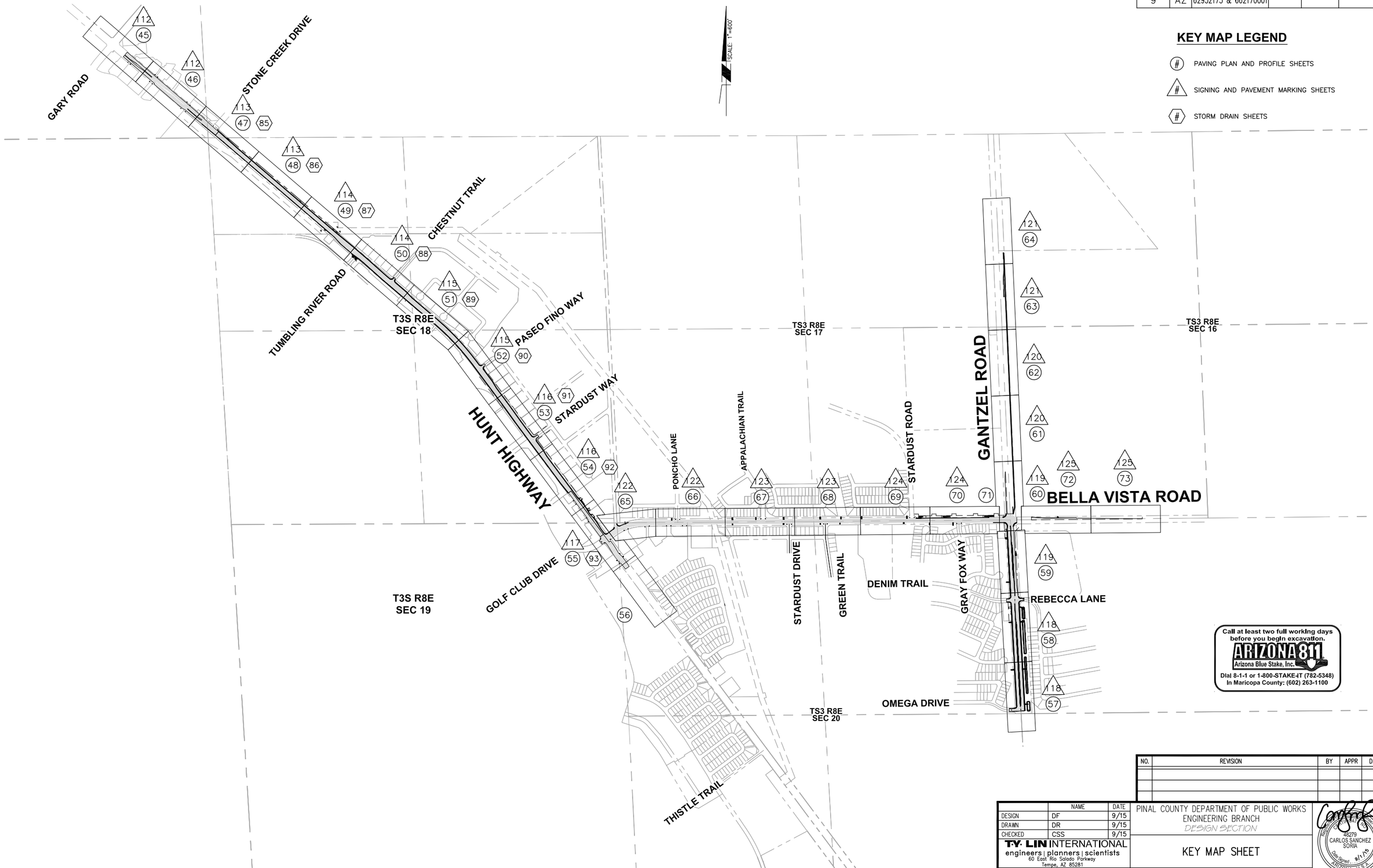
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

KEY MAP LEGEND

- (#) PAVING PLAN AND PROFILE SHEETS
- △# SIGNING AND PAVEMENT MARKING SHEETS
- ⬡# STORM DRAIN SHEETS



NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

T·Y· LIN INTERNATIONAL
engineers | planners | scientists
60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

KEY MAP SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 3 OF 176

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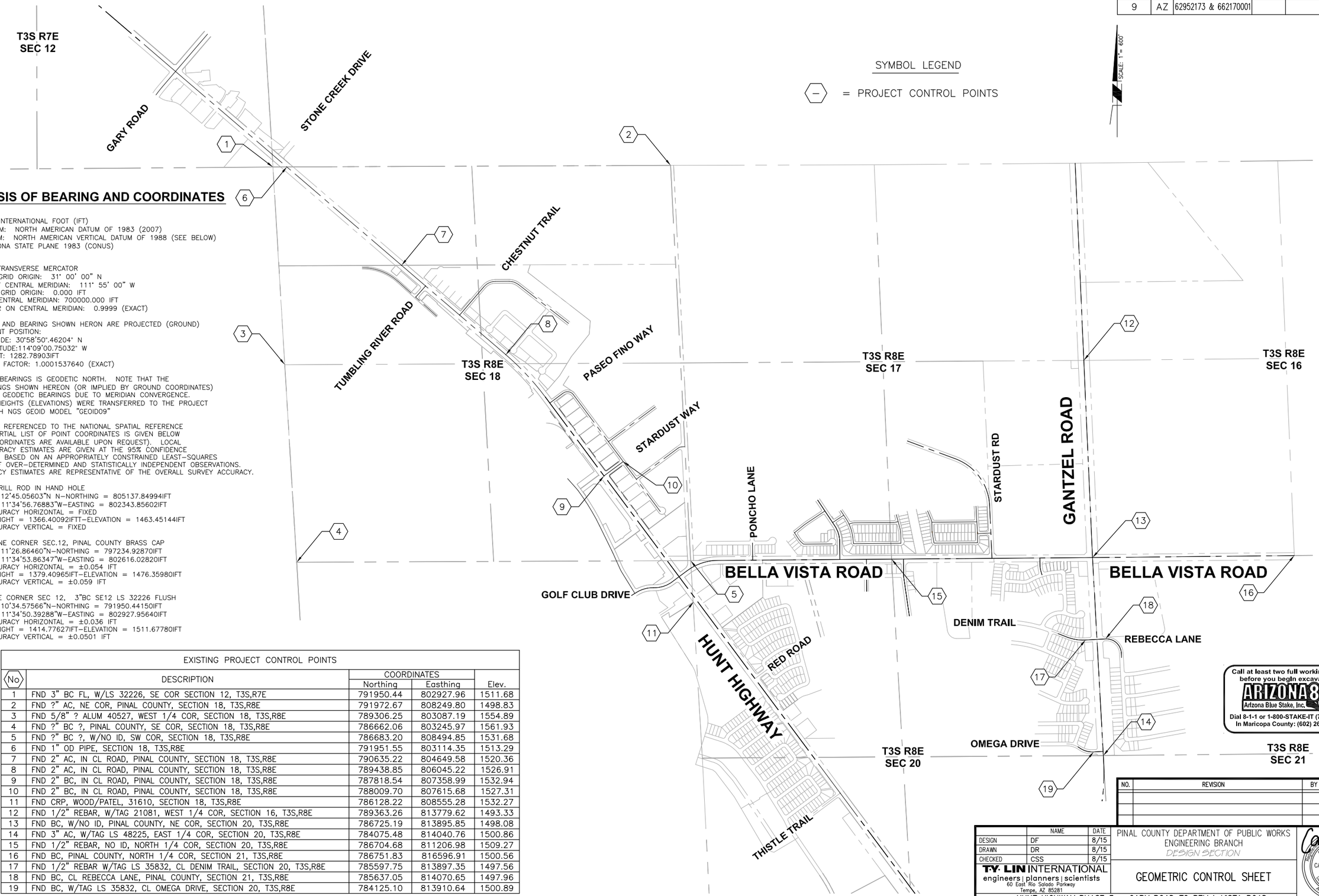
9	AZ	62952173 & 662170001			

SYMBOL LEGEND

⟨–⟩ = PROJECT CONTROL POINTS

SCALE: 1" = 600'



BASIS OF BEARING AND COORDINATES

LINEAR UNIT: INTERNATIONAL FOOT (IFT)
GEODETIC DATUM: NORTH AMERICAN DATUM OF 1983 (2007)
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (SEE BELOW)
SYSTEM: ARIZONA STATE PLANE 1983 (CONUS)
ZONE: CENTRAL

PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF GRID ORIGIN: 31° 00' 00" N
LONGITUDE OF CENTRAL MERIDIAN: 111° 55' 00" W
NORTHING AT GRID ORIGIN: 0.000 IFT
EASTING AT CENTRAL MERIDIAN: 700000.000 IFT
SCALE FACTOR ON CENTRAL MERIDIAN: 0.9999 (EXACT)

ALL DISTANCES AND BEARING SHOWN HERON ARE PROJECTED (GROUND) BASED ON POINT POSITION:
PROJECT LATITUDE: 30°58'50".46204" N
PROJECT LONGITUDE:114°09'00.75032" W
PROJECT HEIGHT: 1282.78903IFT
GROUND SCALE FACTOR: 1.0001537640 (EXACT)

THE BASIS OF BEARINGS IS GEODETIC NORTH. NOTE THAT THE GROUND BEARINGS SHOWN HEREON (OR IMPLIED BY GROUND COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE. ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE PROJECT USING GPS WITH NGS GEOID MODEL "GEOID09"

THE SURVEY IS REFERENCED TO THE NATIONAL SPATIAL REFERENCE SYSTEM. A PARTIAL LIST OF POINT COORDINATES IS GIVEN BELOW (ADDITIONAL COORDINATES ARE AVAILABLE UPON REQUEST). LOCAL NETWORK ACCURACY ESTIMATES ARE GIVEN AT THE 95% CONFIDENCE LEVEL AND ARE BASED ON AN APPROPRIATELY CONSTRAINED LEAST-SQUARES ADJUSTMENT OF OVER-DETERMINED AND STATISTICALLY INDEPENDENT OBSERVATIONS. THESE ACCURACY ESTIMATES ARE REPRESENTATIVE OF THE OVERALL SURVEY ACCURACY.

"NGS 2E02", DRILL ROD IN HAND HOLE
LATITUDE = 33°12'45.05603"N N-NORTHING = 805137.84994IFT
LONGITUDE = 111°34'56.76883"W-EASTING = 802343.85602IFT
ESTIMATED ACCURACY HORIZONTAL = FIXED
ELLIPSOIDAL HEIGHT = 1366.40092IFTT-ELEVATION = 1463.45144IFT
ESTIMATED ACCURACY VERTICAL = FIXED

POINT #1003, NE CORNER SEC.12, PINAL COUNTY BRASS CAP
LATITUDE = 33°11'26.86460"N-NORTHING = 797234.92870IFT
LONGITUDE = 111°34'53.86347"W-EASTING = 802616.02820IFT
ESTIMATED ACCURACY HORIZONTAL = ±0.054 IFT
ELLIPSOIDAL HEIGHT = 1379.40965IFT-ELEVATION = 1476.35980IFT
ESTIMATED ACCURACY VERTICAL = ±0.059 IFT

POINT #1000,SE CORNER SEC 12, 3"BC SE12 LS 32226 FLUSH
LATITUDE = 33°10'34.57566"N-NORTHING = 791950.44150IFT
LONGITUDE = 111°34'50.39288"W-EASTING = 802927.95640IFT
ESTIMATED ACCURACY HORIZONTAL = ±0.036 IFT
ELLIPSOIDAL HEIGHT = 1414.77627IFT-ELEVATION = 1511.67780IFT
ESTIMATED ACCURACY VERTICAL = ±0.0501 IFT

EXISTING PROJECT CONTROL POINTS

No	DESCRIPTION	COORDINATES Northing	COORDINATES Easthing	Elev.
1	FND 3" BC FL, W/LS 32226, SE COR SECTION 12, T3S,R7E	791950.44	802927.96	1511.68
2	FND ?" AC, NE COR, PINAL COUNTY, SECTION 18, T3S,R8E	791972.67	808249.80	1498.83
3	FND 5/8" ? ALUM 40527, WEST 1/4 COR, SECTION 18, T3S,R8E	789306.25	803087.19	1554.89
4	FND ?" BC ?, PINAL COUNTY, SE COR, SECTION 18, T3S,R8E	786662.06	803245.97	1561.93
5	FND ?" BC ?, W/NO ID, SW COR, SECTION 18, T3S,R8E	786683.20	808494.85	1531.68
6	FND 1" OD PIPE, SECTION 18, T3S,R8E	791951.55	803114.35	1513.29
7	FND 2" AC, IN CL ROAD, PINAL COUNTY, SECTION 18, T3S,R8E	790635.22	804649.58	1520.36
8	FND 2" AC, IN CL ROAD, PINAL COUNTY, SECTION 18, T3S,R8E	789438.85	806045.22	1526.91
9	FND 2" BC, IN CL ROAD, PINAL COUNTY, SECTION 18, T3S,R8E	787818.54	807358.99	1532.94
10	FND 2" BC, IN CL ROAD, PINAL COUNTY, SECTION 18, T3S,R8E	788009.70	807615.68	1527.31
11	FND CRP, WOOD/PATEL, 31610, SECTION 18, T3S,R8E	786128.22	808555.28	1532.27
12	FND 1/2" REBAR, W/TAG 21081, WEST 1/4 COR, SECTION 16, T3S,R8E	789363.26	813779.62	1493.33
13	FND BC, W/NO ID, PINAL COUNTY, NE COR, SECTION 20, T3S,R8E	786725.19	813895.85	1498.08
14	FND 3" AC, W/TAG LS 48225, EAST 1/4 COR, SECTION 20, T3S,R8E	784075.48	814040.76	1500.86
15	FND 1/2" REBAR, NO ID, NORTH 1/4 COR, SECTION 20, T3S,R8E	786704.68	811206.98	1509.27
16	FND BC, PINAL COUNTY, NORTH 1/4 COR, SECTION 21, T3S,R8E	786751.83	816596.91	1500.56
17	FND 1/2" REBAR W/TAG LS 35832, CL DENIM TRAIL, SECTION 20, T3S,R8E	785597.75	813897.35	1497.56
18	FND BC, CL REBECCA LANE, PINAL COUNTY, SECTION 21, T3S,R8E	785637.05	814070.65	1497.96
19	FND BC, W/TAG LS 35832, CL OMEGA DRIVE, SECTION 20, T3S,R8E	784125.10	813910.64	1500.89

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NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GEOMETRIC CONTROL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed: 8/27/15 ARIZONA, U.S.A. Expires: 6/30/17

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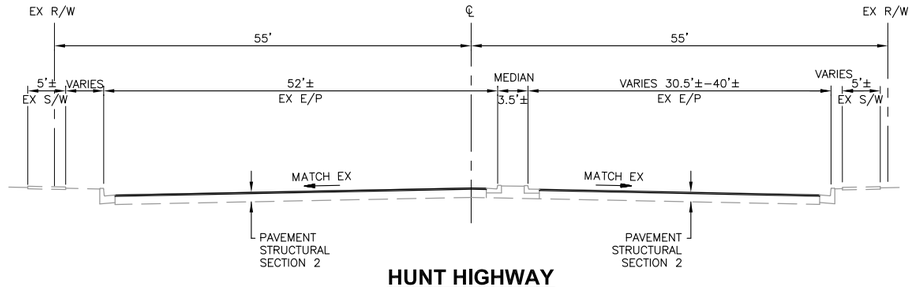
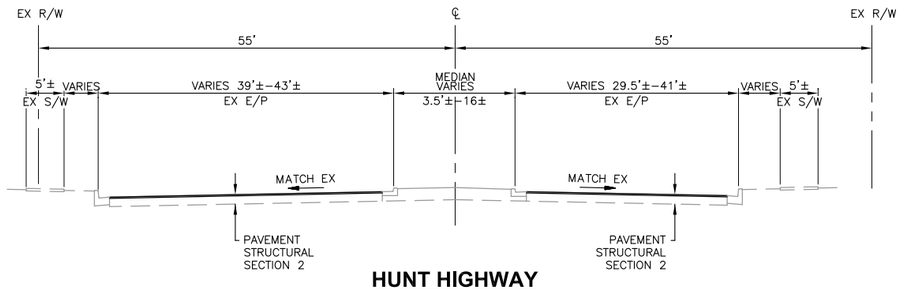
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



HUNT HIGHWAY

NTS

STA 288+00.00 TO STA 288+96.43
STA 293+51.14 TO STA 294+74.57
STA 299+30.14 TO STA 300+81.19



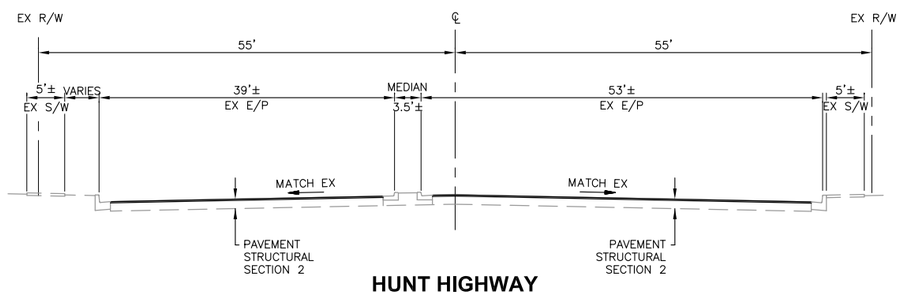
HUNT HIGHWAY

NTS

STA 288+96.43 TO STA 291+28.86
STA 294+74.57 TO STA 296+57.05
STA 300+81.19 TO STA 301+78.12

PAVEMENT STRUCTURAL SECTION NO. 2

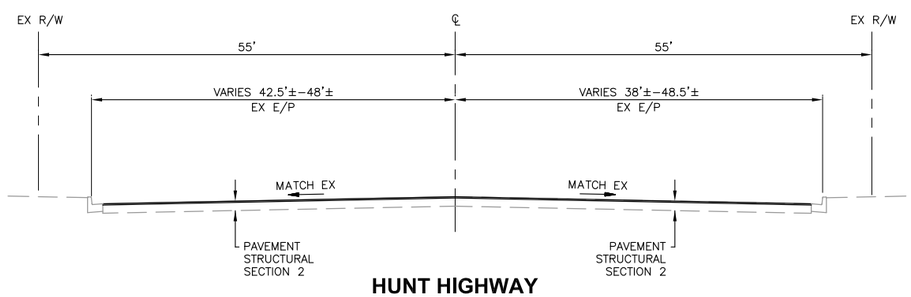
NTS



HUNT HIGHWAY

NTS

STA 291+28.86 TO STA 292+78.28
STA 296+74.57 TO STA 298+61.81



HUNT HIGHWAY

NTS

STA 292+78.28 TO STA 293+51.14
STA 298+61.81 TO STA 299+30.14
STA 301+78.12 TO STA 302+11.84

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ENGINEERING BRANCH
DESIGN SECTION

TYPICAL SECTIONS SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 5 OF 176

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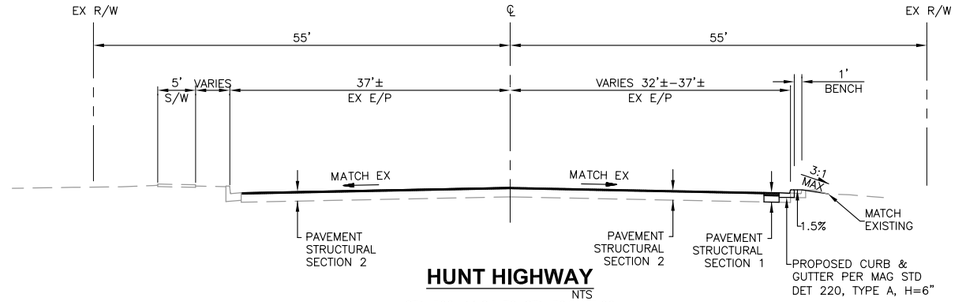
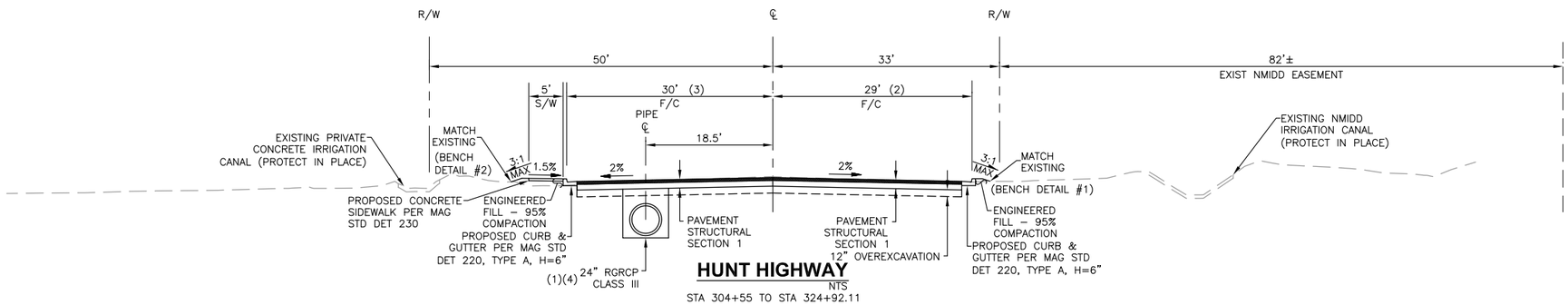
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

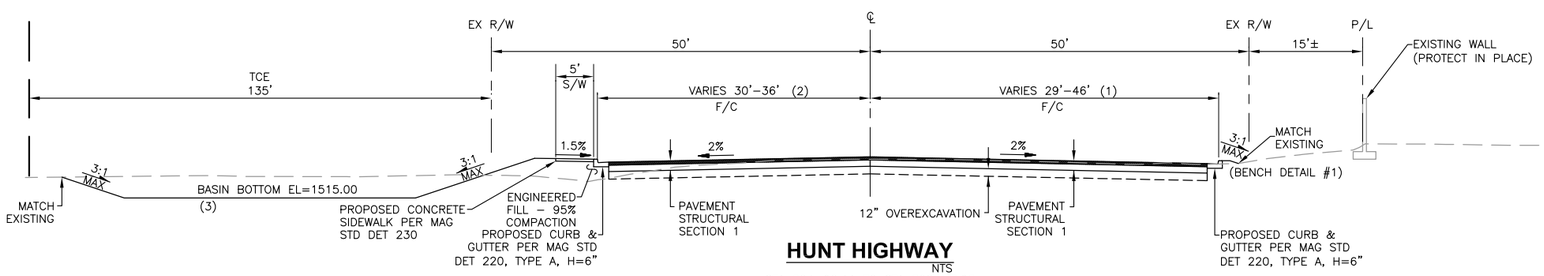


HUNT HIGHWAY
NTS
STA 302+11.84 TO STA 304+55.00



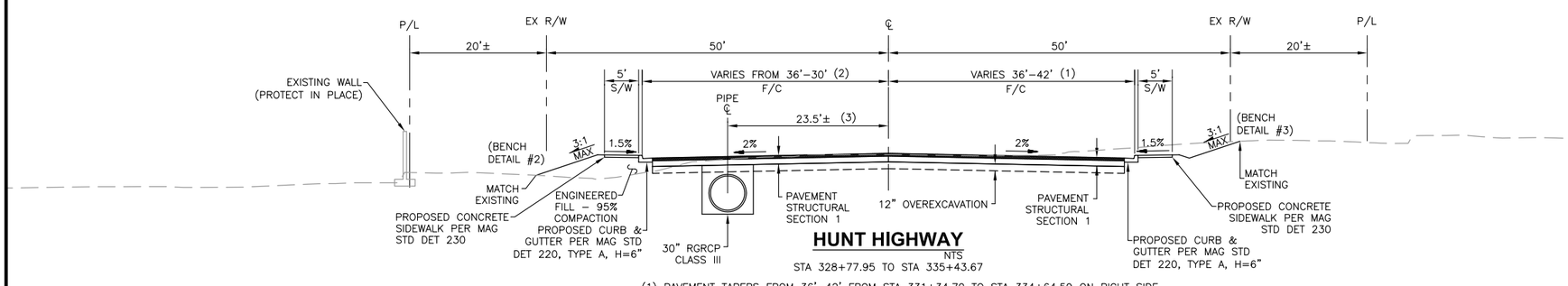
HUNT HIGHWAY
NTS
STA 304+55 TO STA 324+92.11

(1) NO STORM DRAIN PIPE FROM STA 323+80.00 TO STA 324+92.11
(2) PAVEMENT TAPERS FROM 36'± TO 29' FROM STA 302+11.84 TO STA 305+94.89 ON RIGHT SIDE
(3) PAVEMENT TAPERS FROM 37'(MATCH EXIST) TO 30' FROM STA 304+55.00 TO STA 308+05.00 ON LEFT SIDE
(4) STORM DRAIN PIPE SIZE IS 30" FROM STA 304+85.93±(MATCH EXIST) TO STA 306+00.00



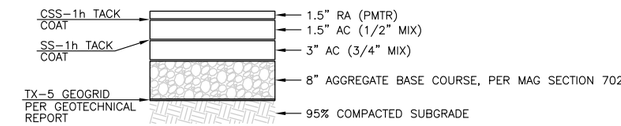
HUNT HIGHWAY
NTS
STA 324+92.11 TO STA 328+77.95

(1) PAVEMENT TAPER FROM 29'–46' FROM STA 324+92.11 TO STA 327+23.17 ON RIGHT SIDE
(2) PAVEMENT TAPER FROM 30'–36' FROM STA 325+47.94 TO STA 328+77.95 ON LEFT SIDE
(3) BASIN LIMITS PER PLANS



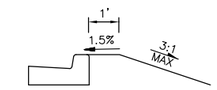
HUNT HIGHWAY
NTS
STA 328+77.95 TO STA 335+43.67

(1) PAVEMENT TAPERS FROM 36'–42' FROM STA 331+34.70 TO STA 334+64.59 ON RIGHT SIDE
(2) PAVEMENT TAPERS FROM 36'–30' FROM STA 331+35.39 TO STA 334+65.29 ON LEFT SIDE
(3) STORM DRAIN PIPE TAPERS FROM CL FROM 23.5'–17' FROM STA 332+00.00 TO STA 335+00.00



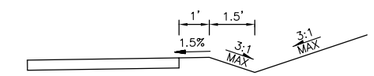
PAVEMENT STRUCTURAL SECTION NO. 1
NTS

PAVEMENT STRUCTURAL SECTION NO. 2
NTS



BENCH DETAIL #1
NTS

BENCH DETAIL #2
NTS



BENCH DETAIL #3
NTS

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	NAME	DATE
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DRAWN	DR	9/15
CHECKED	CSS	9/15

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DESIGN SECTION

TYPICAL SECTIONS SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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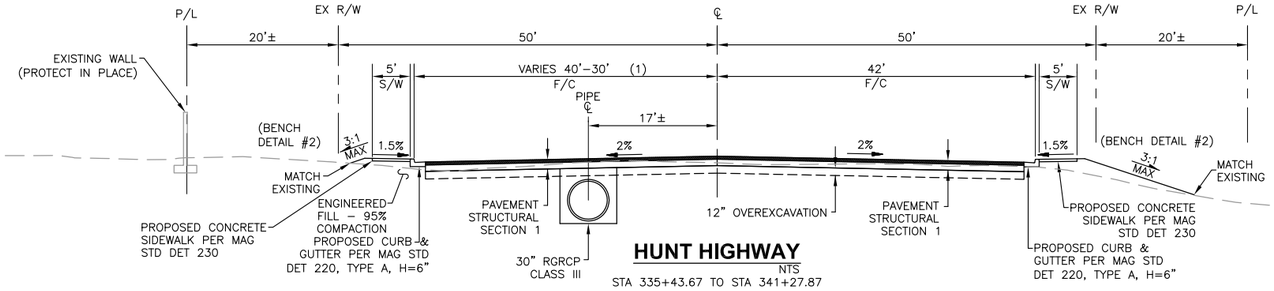
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

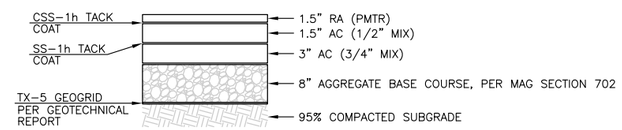


HUNT HIGHWAY

NTS

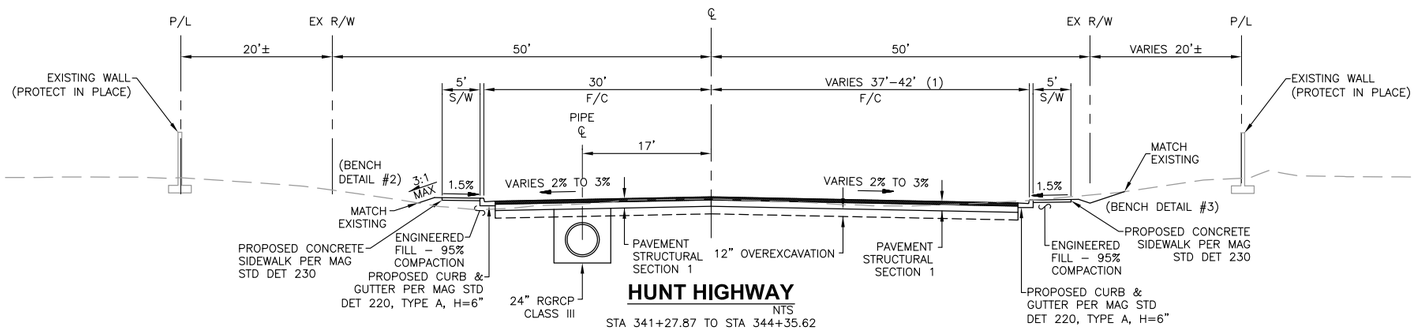
STA 335+43.67 TO STA 341+27.87

(1) PAVEMENT TAPERS FROM 40'–30' FROM STA 338+37.17 TO STA 339+37.17 ON LEFT SIDE



PAVEMENT STRUCTURAL SECTION NO. 1

NTS



HUNT HIGHWAY

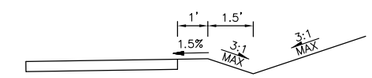
NTS

STA 341+27.87 TO STA 344+35.62

(1) PAVEMENT TAPERS FROM 42'–37' FROM STA 341+27.87 TO STA 344+02.87 ON RIGHT SIDE
(2) SUPERELEVATION TRANSITION FROM STA 341+74.09 TO STA 344+35.62

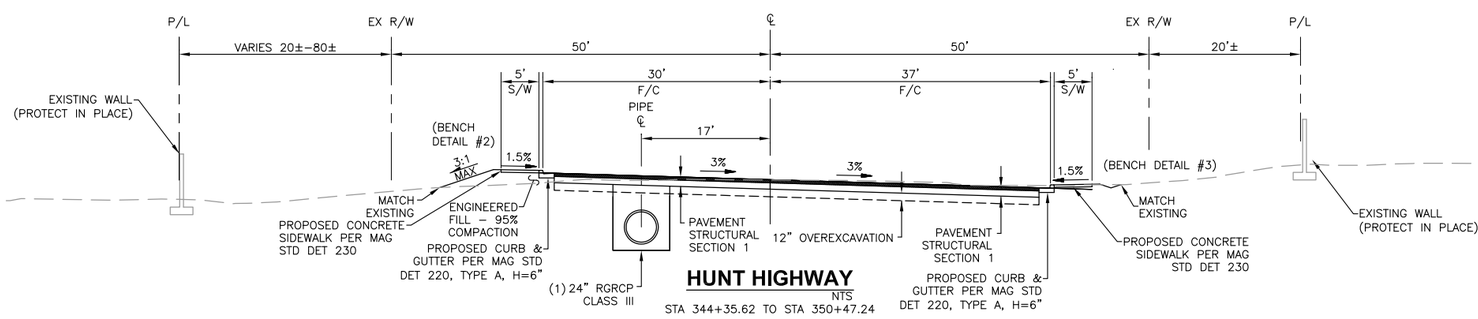
BENCH DETAIL #2

NTS



BENCH DETAIL #3

NTS



HUNT HIGHWAY

NTS

STA 344+35.62 TO STA 350+47.24

(1) NO STORM DRAIN PIPE FROM STA 347+00.00 TO STA 350+45.00

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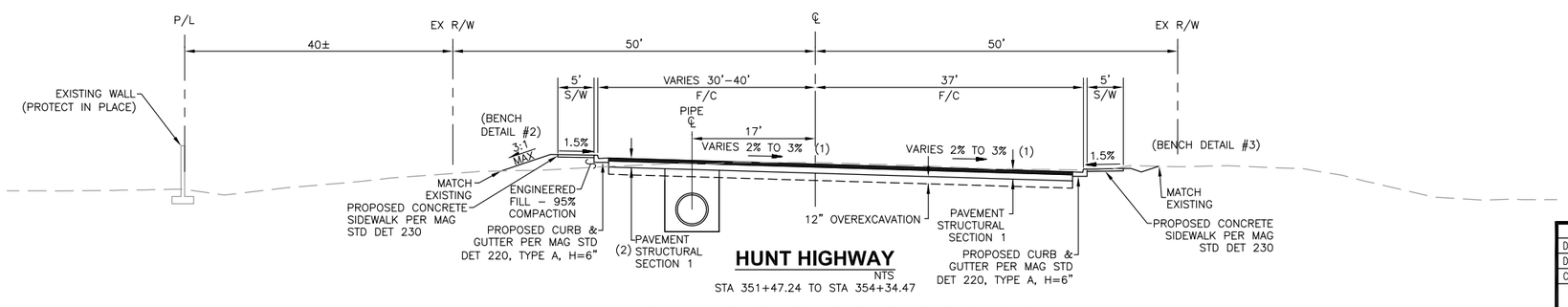

HUNT HIGHWAY

NTS

STA 351+47.24 TO STA 354+34.47

(1) SUPERELEVATION TRANSITION FROM STA 351+47.24 TO STA 354+34.47
(2) NO STORM DRAIN FRO STA 351+47.24 TO STA 353+15.00

NO.	REVISION	BY	APPR	DATE

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CHECKED	CSS	8/15

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TYPICAL SECTIONS SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 46279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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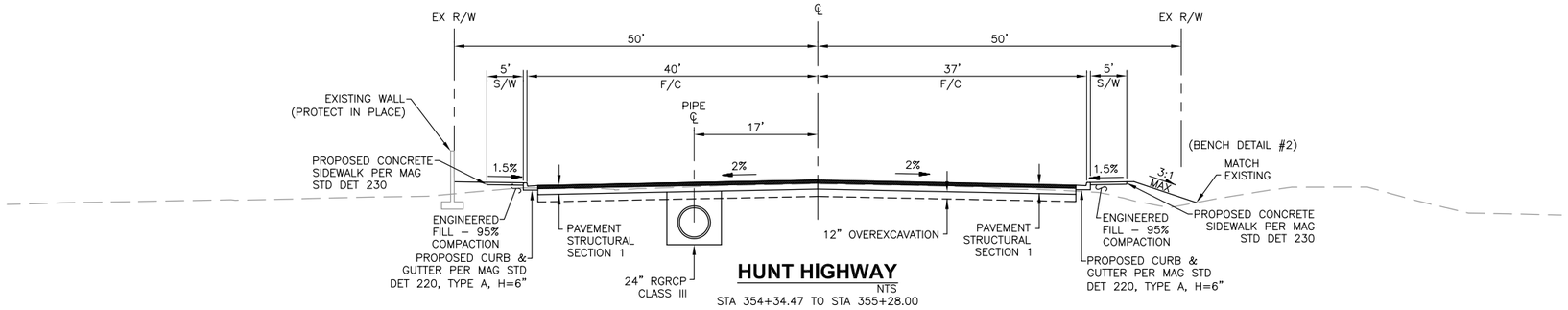
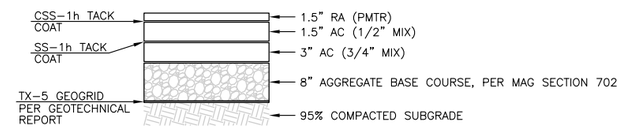


HUNT HIGHWAY

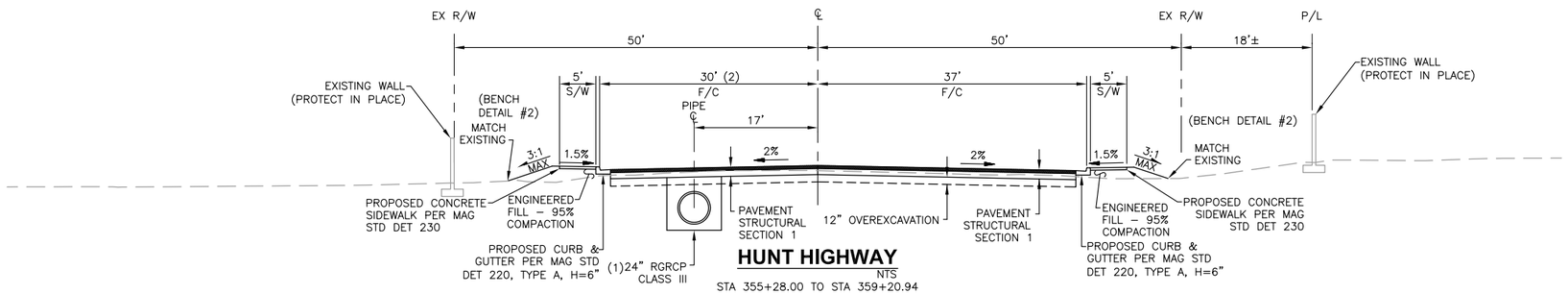
NTS

STA 354+34.47 TO STA 355+28.00



PAVEMENT STRUCTURAL SECTION NO. 1

NTS



HUNT HIGHWAY

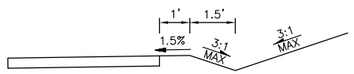
NTS

STA 355+28.00 TO STA 359+20.94

(1) NO STORM DRAIN PIPE FROM STA 358+80.00 TO STA 359+20.94
(2) PAVEMENT TAPERS FROM 40'–30' FROM STA 355+28.00 TO STA 356+28.00 ON LEFT SIDE

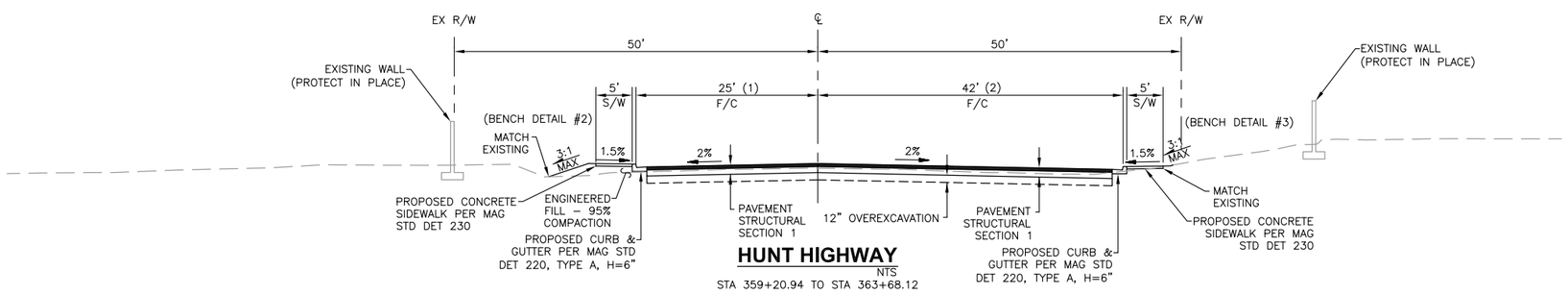
BENCH DETAIL #2

NTS



BENCH DETAIL #3

NTS



HUNT HIGHWAY

NTS

STA 359+20.94 TO STA 363+68.12

(1) PAVEMENT TAPER FROM 30'–25' FROM STA 359+21.00 TO STA 361+96.00 ON LEFT SIDE
(2) PAVEMENT TAPER FROM 37'–42' FROM STA 359+20.94 TO STA 361+96.00 ON RIGHT SIDE

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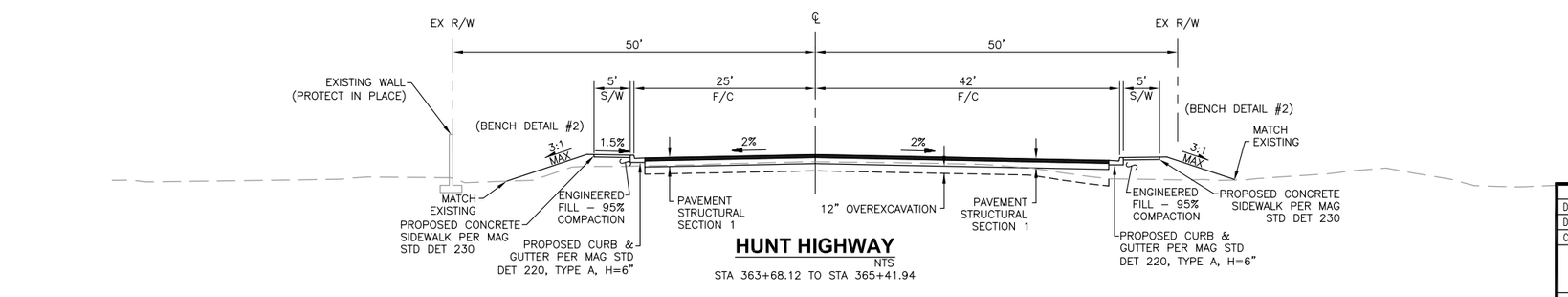

HUNT HIGHWAY

NTS

STA 363+68.12 TO STA 365+41.94

Call at least two full working days before you begin excavation.
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NO.	REVISION	BY	APPR	DATE

	NAME	DATE
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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TYPICAL SECTIONS SHEET

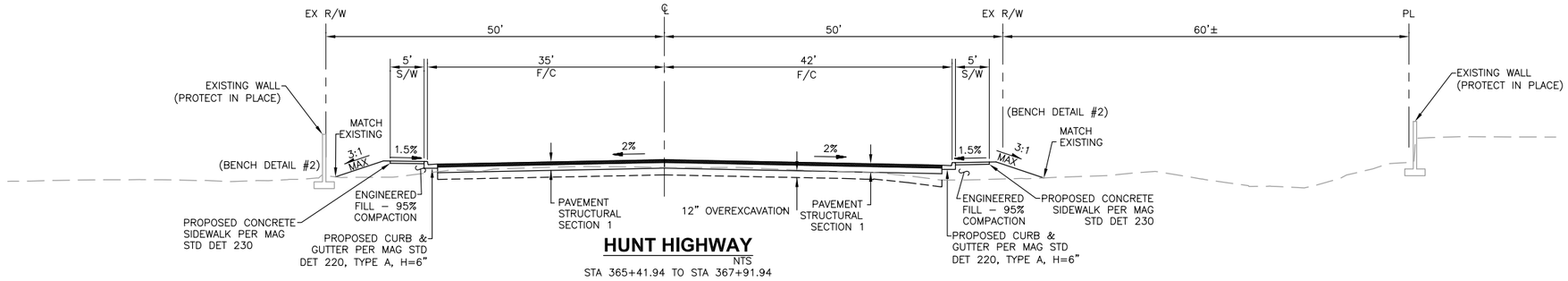
REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 8 OF 176

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Typicals\6621173_05-09_Typicals.dwg 8/27/2015 9:21:35 AM Carlos Sanchez-Soria TY Lin Half Scale.ctb

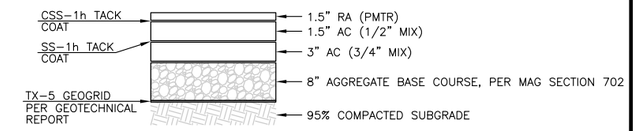
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



HUNT HIGHWAY

NTS

STA 365+41.94 TO STA 367+91.94

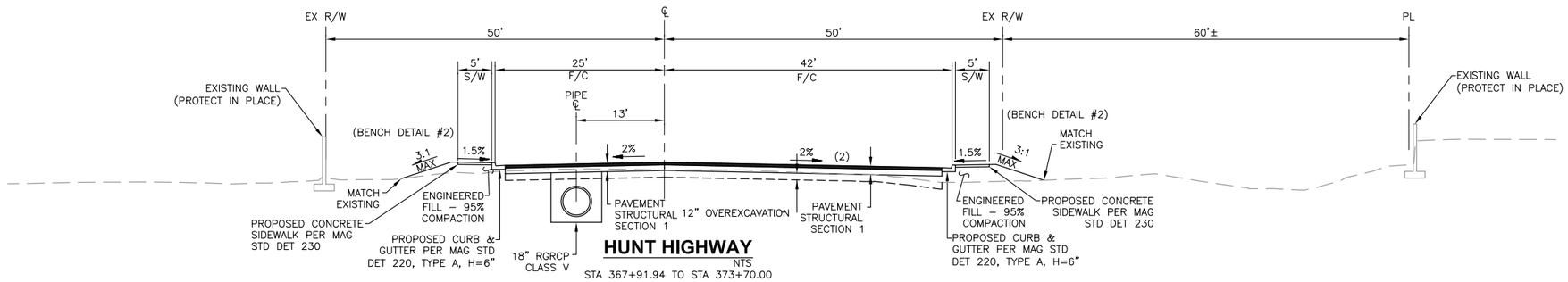


PAVEMENT STRUCTURAL SECTION NO. 1

NTS

PAVEMENT STRUCTURAL SECTION NO. 2

NTS



HUNT HIGHWAY

NTS

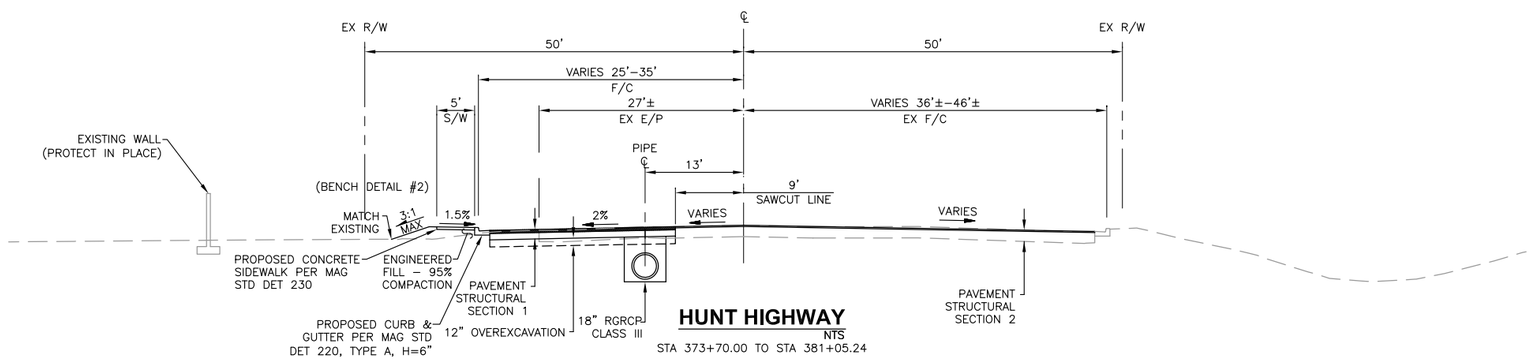
STA 367+91.94 TO STA 373+70.00

(1) NO STORM DRAIN PIPE FROM STA 367+91.94 TO STA 369+00

(2) PAVEMENT TAPERS FROM 42'–36.5' FROM STA 372+00.02 TO STA 373+70.00 ON LEFT SIDE

BENCH DETAIL #2

NTS



HUNT HIGHWAY

NTS

STA 373+70.00 TO STA 381+05.24

* NO STORM DRAIN PIPE FROM STA 380+36.54 TO STA 381+05.24

* PAVEMENT TAPERS FROM 25'–35' FROM STA 375+00.72 TO STA 375+60.61 AND STA 377+80.16 TO STA 378+50.16

* PAVEMENT TAPERS FROM 35'–25' FROM STA 376+60.61 TO STA 377+60.61 AND STA 379+25.16 TO STA 380+25.16

NOTE: IF CRACKS LARGER THAN 1/4 INCH WIDE ARE OBSERVED AT THE SURFACE, CONTRACTOR SHALL TREAT THE SURFACE AS SPECIFIED IN THE GEOTECHNICAL REPORT BY NINYO AND MOORE, DATED JANUARY 30, 2014.

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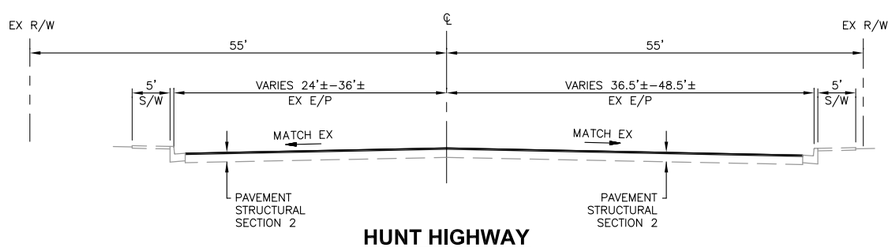

HUNT HIGHWAY

NTS

STA 381+08.51 TO STA 386+71.65

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DESIGN SECTION

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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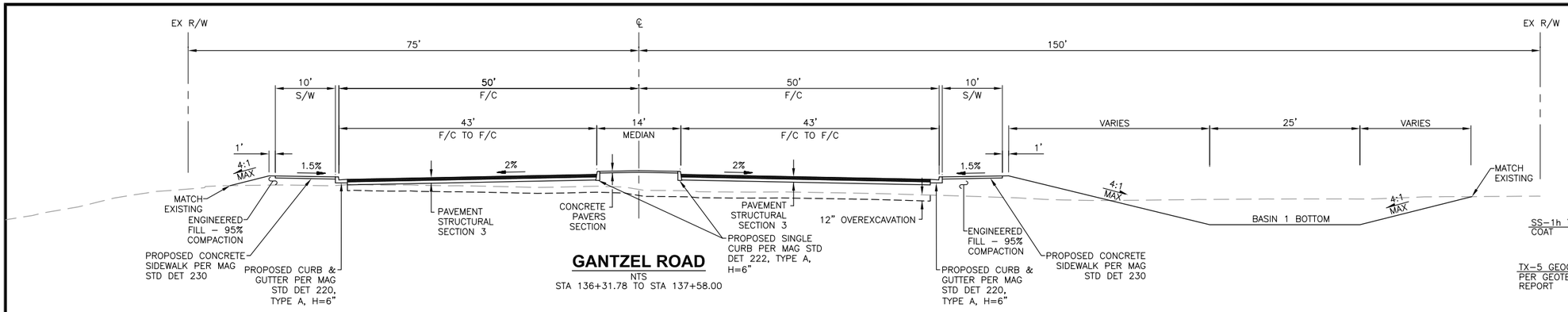
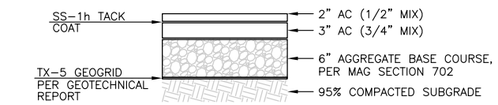


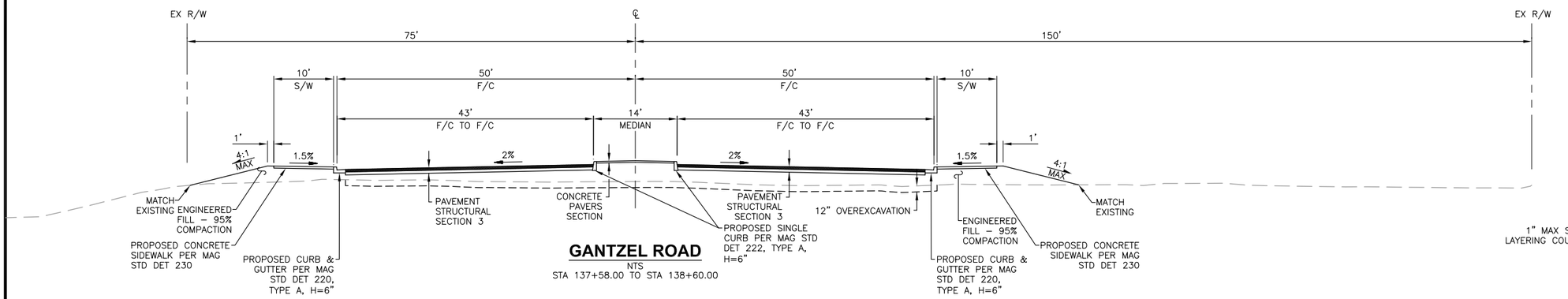
GANTZEL ROAD

NTS
STA 136+31.78 TO STA 137+58.00



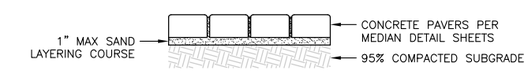
PAVEMENT STRUCTURAL SECTION NO. 3

NTS



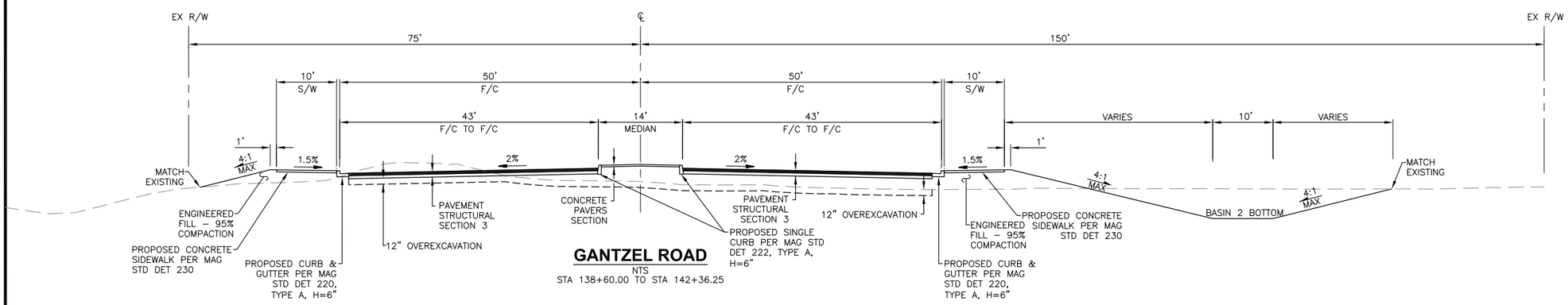
GANTZEL ROAD

NTS
STA 137+58.00 TO STA 138+60.00



CONCRETE PAVERS SECTION

NTS



GANTZEL ROAD

NTS
STA 138+60.00 TO STA 142+36.25

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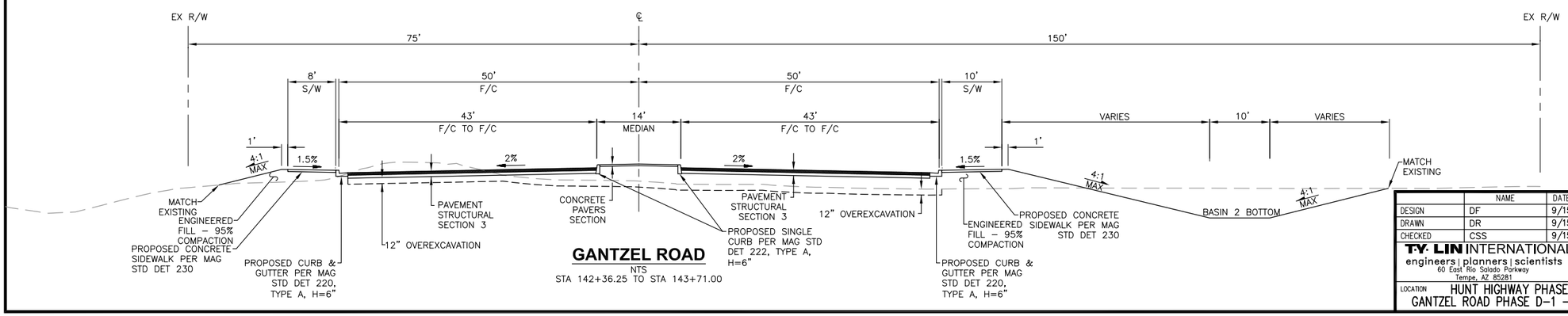

GANTZEL ROAD

NTS
STA 142+36.25 TO STA 143+71.00

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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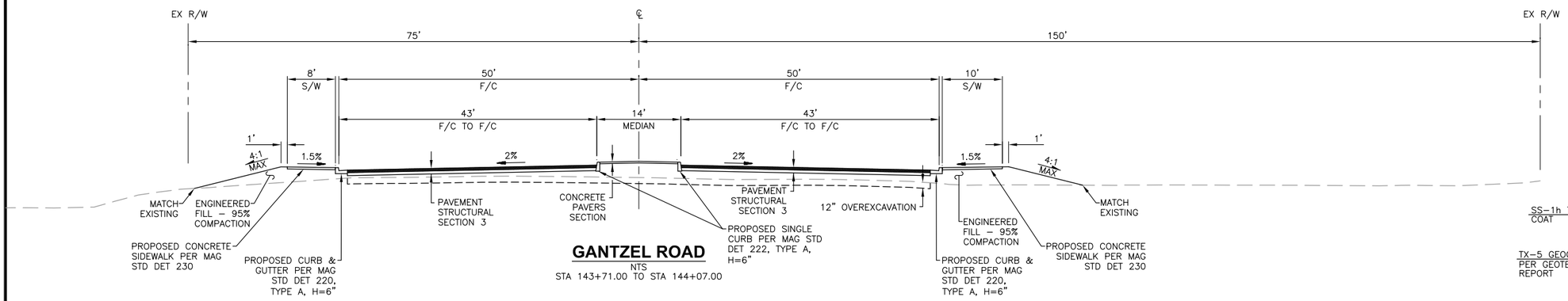
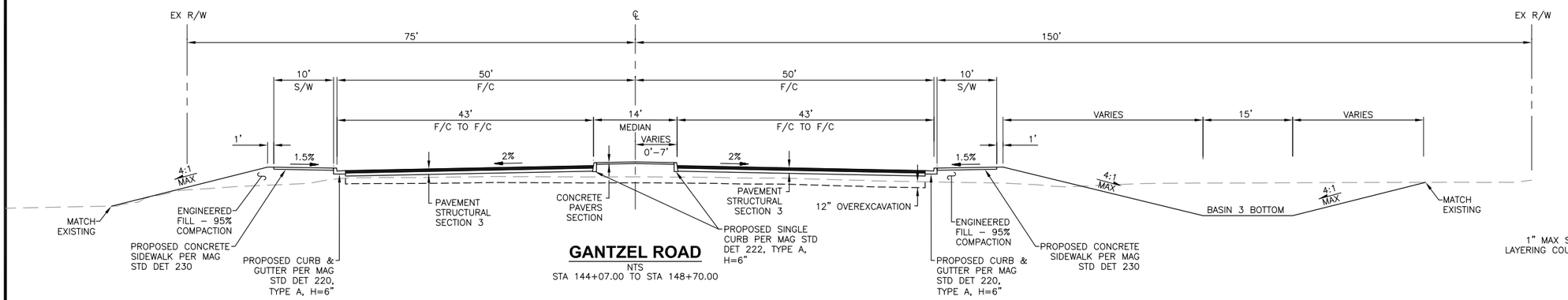


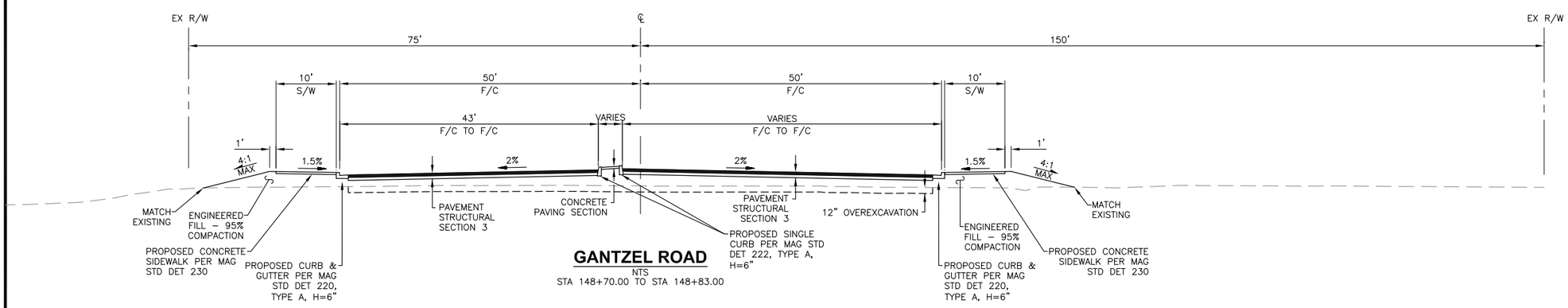
GANTZEL ROAD

NTS
STA 143+71.00 TO STA 144+07.00



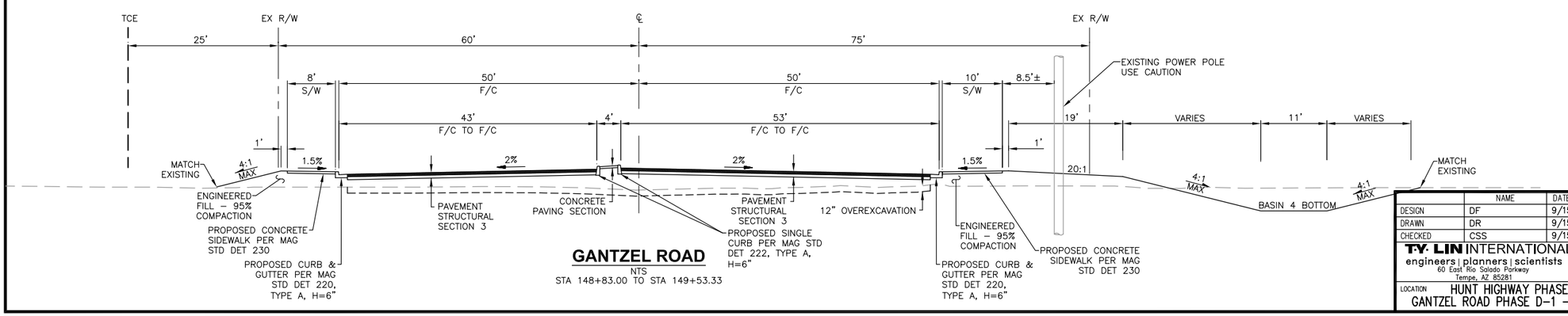
GANTZEL ROAD

NTS
STA 144+07.00 TO STA 148+70.00



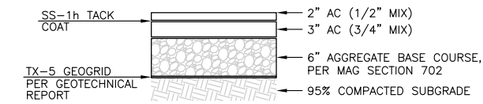
GANTZEL ROAD

NTS
STA 148+70.00 TO STA 148+83.00



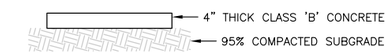
GANTZEL ROAD

NTS
STA 148+83.00 TO STA 149+53.33



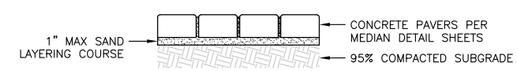
PAVEMENT STRUCTURAL SECTION NO. 3

NTS



CONCRETE PAVING SECTION

NTS



CONCRETE PAVERS SECTION

NTS

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TYPICAL SECTIONS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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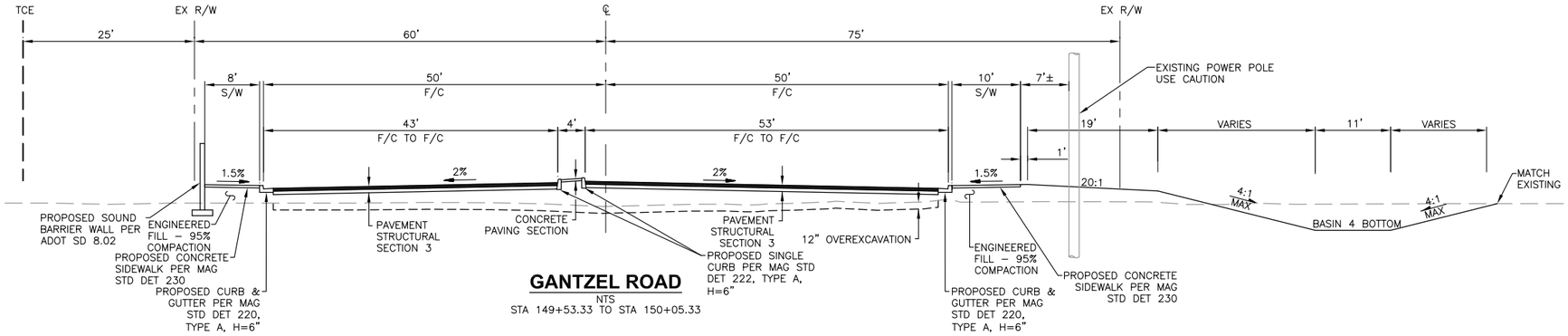
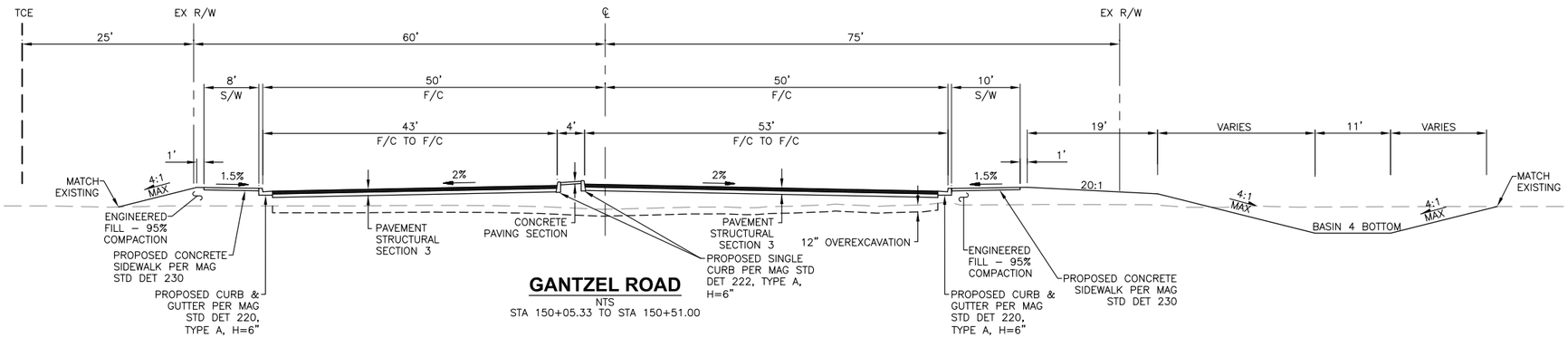
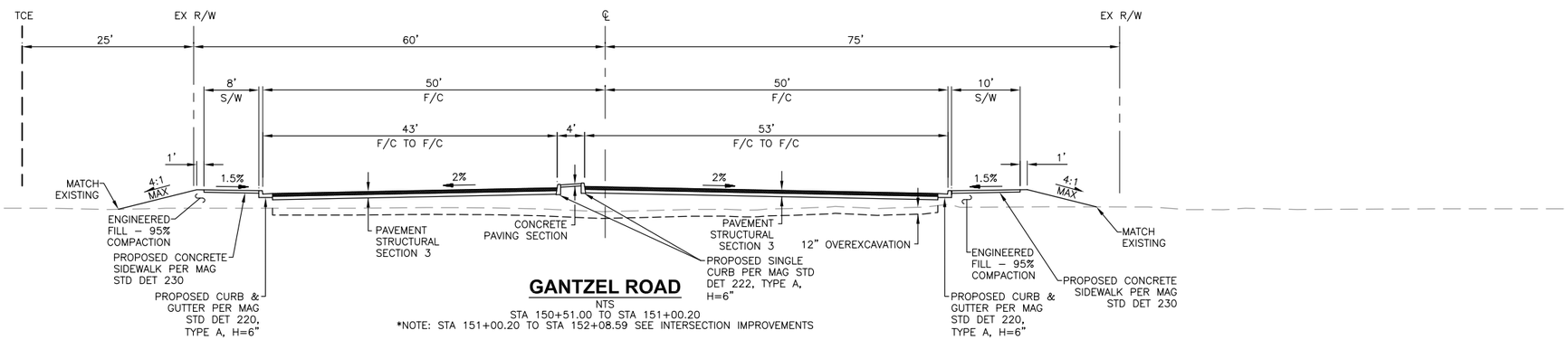


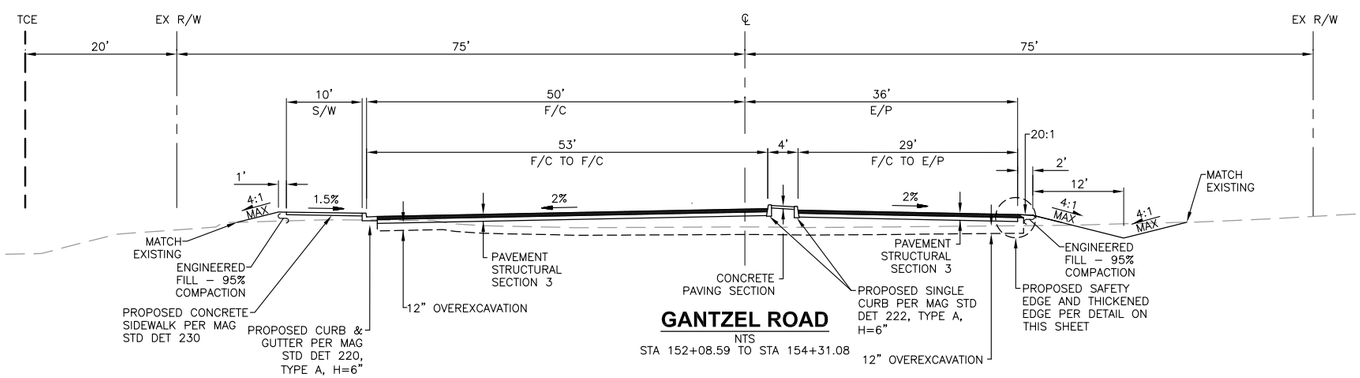
GANTZEL ROAD
NTS
STA 149+53.33 TO STA 150+05.33



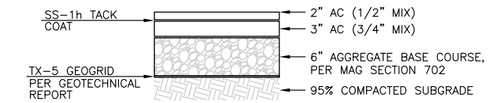
GANTZEL ROAD
NTS
STA 150+05.33 TO STA 150+51.00



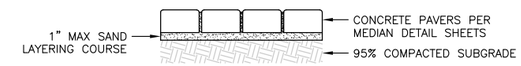
GANTZEL ROAD
NTS
STA 150+51.00 TO STA 151+00.20
*NOTE: STA 151+00.20 TO STA 152+08.59 SEE INTERSECTION IMPROVEMENTS



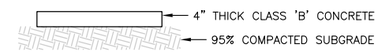
GANTZEL ROAD
NTS
STA 152+08.59 TO STA 154+31.08



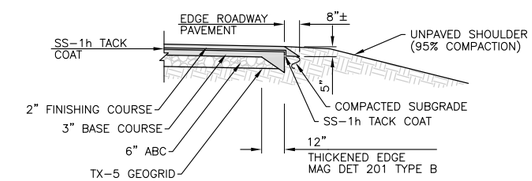
PAVEMENT STRUCTURAL SECTION NO. 3
NTS



CONCRETE PAVERS SECTION
NTS



CONCRETE PAVING SECTION
NTS



SAFETY EDGE DETAIL
NTS

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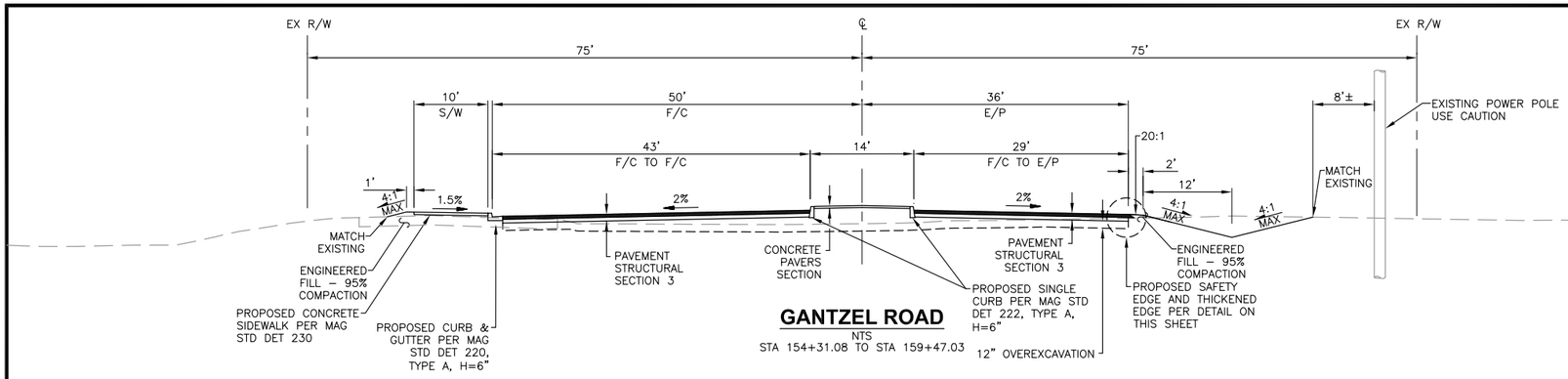
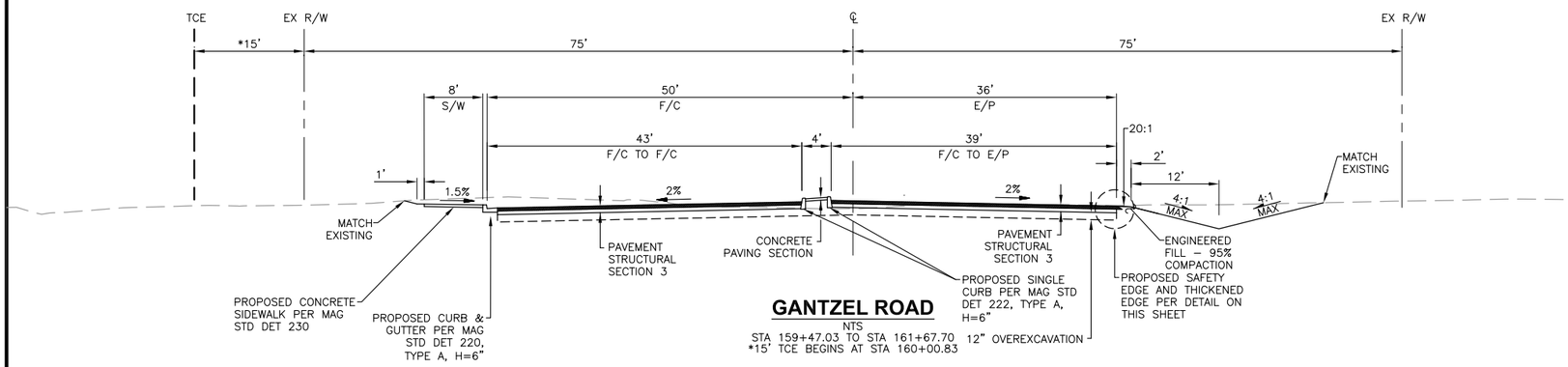


GANTZEL ROAD

NTS

STA 154+31.08 TO STA 159+47.03

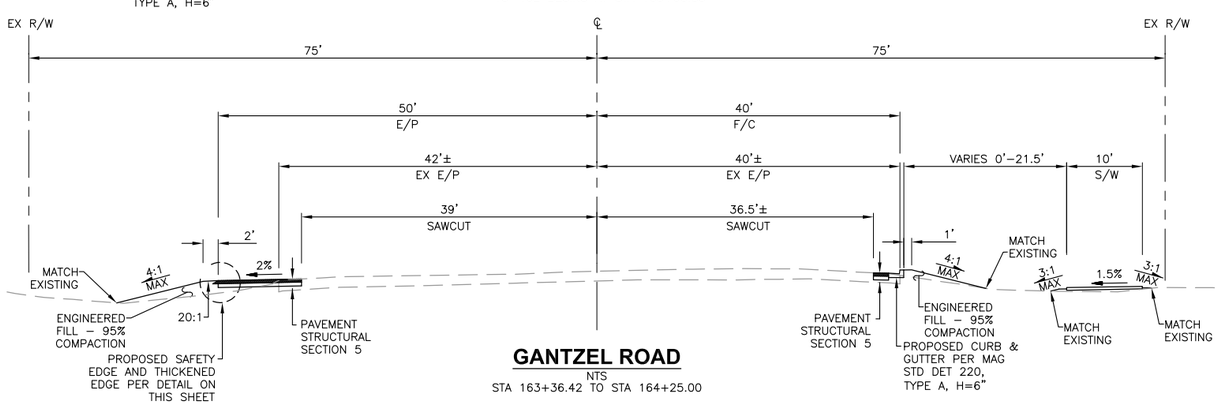


GANTZEL ROAD

NTS

STA 159+47.03 TO STA 161+67.70

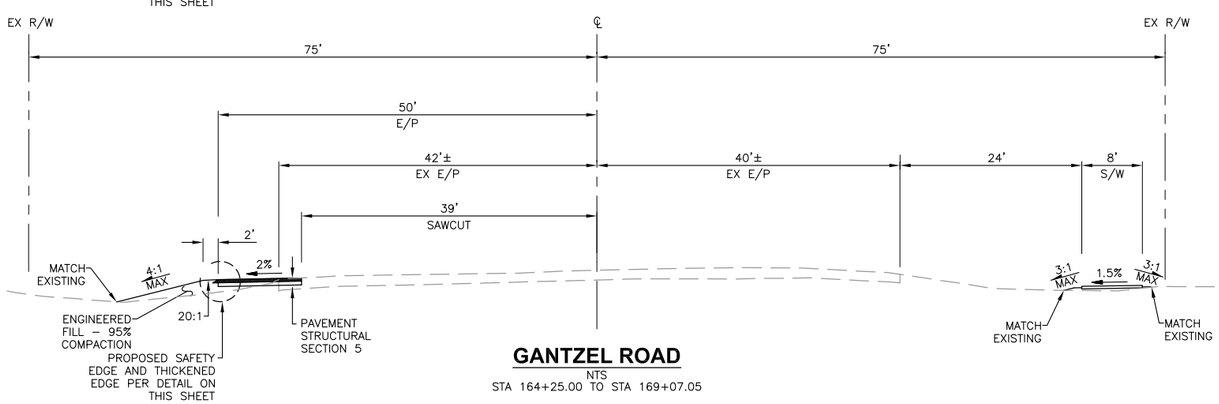
*15' TCE BEGINS AT STA 160+00.83



GANTZEL ROAD

NTS

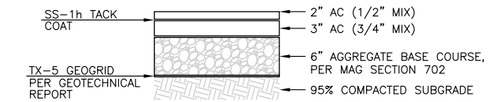
STA 163+36.42 TO STA 164+25.00



GANTZEL ROAD

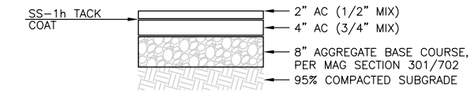
NTS

STA 164+25.00 TO STA 169+07.05



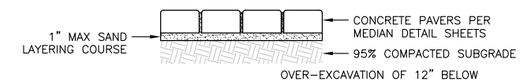
PAVEMENT STRUCTURAL SECTION NO. 3

NTS



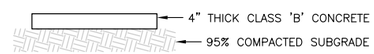
PAVEMENT STRUCTURAL SECTION NO. 5

NTS



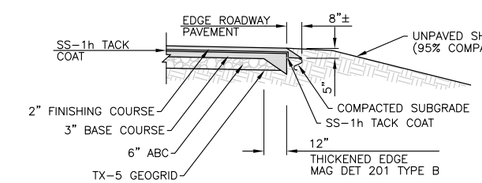
CONCRETE PAVERS SECTION

NTS



CONCRETE PAVING SECTION

NTS



SAFETY EDGE DETAIL

NTS

NOTE:
EXISTING GROUND FOR FILL CONDITIONS AND 12" BELOW SUBGRADE FOR CUT CONDITIONS. ENGINEERED FILL SHALL MEET THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT BY NINYO AND MOORE, DATED AUGUST 22, 2014.

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DRAWN	DR	9/15
CHECKED	CSS	9/15

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TYPICAL SECTIONS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 13 OF 176

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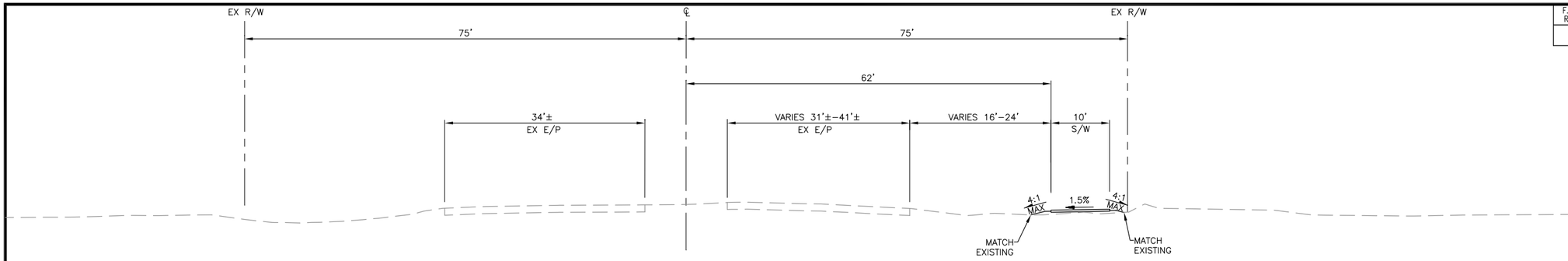
Carlos Sanchez-Soria TY Lin Half Scale.ctb

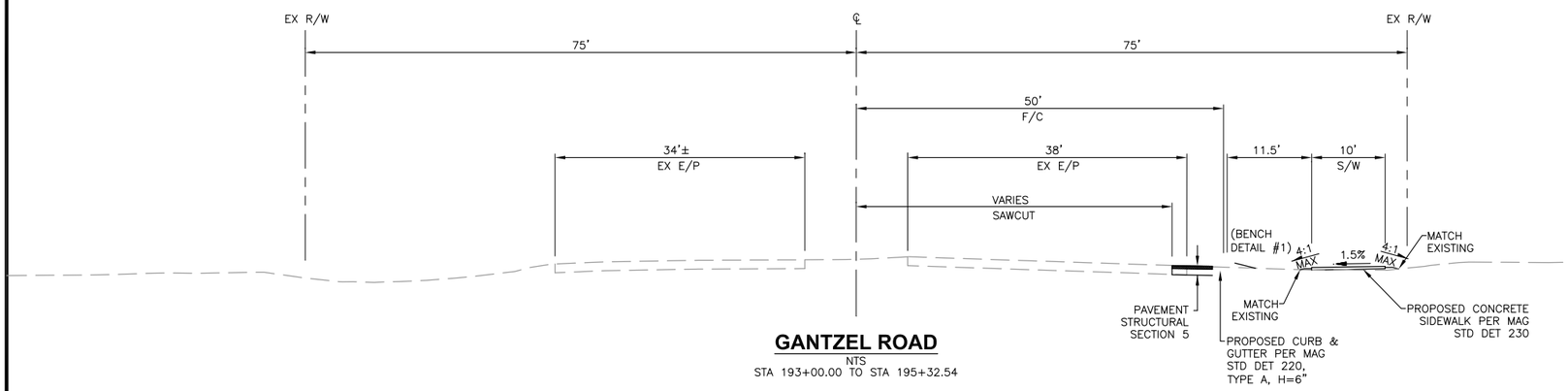
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD

NTS

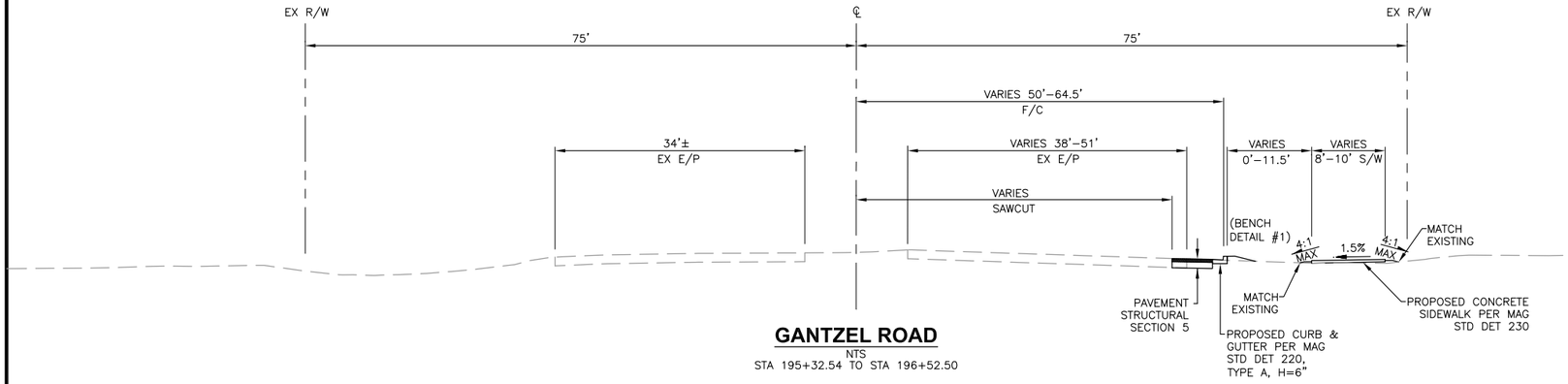
STA 169+07.05 TO STA 193+00.00



GANTZEL ROAD

NTS

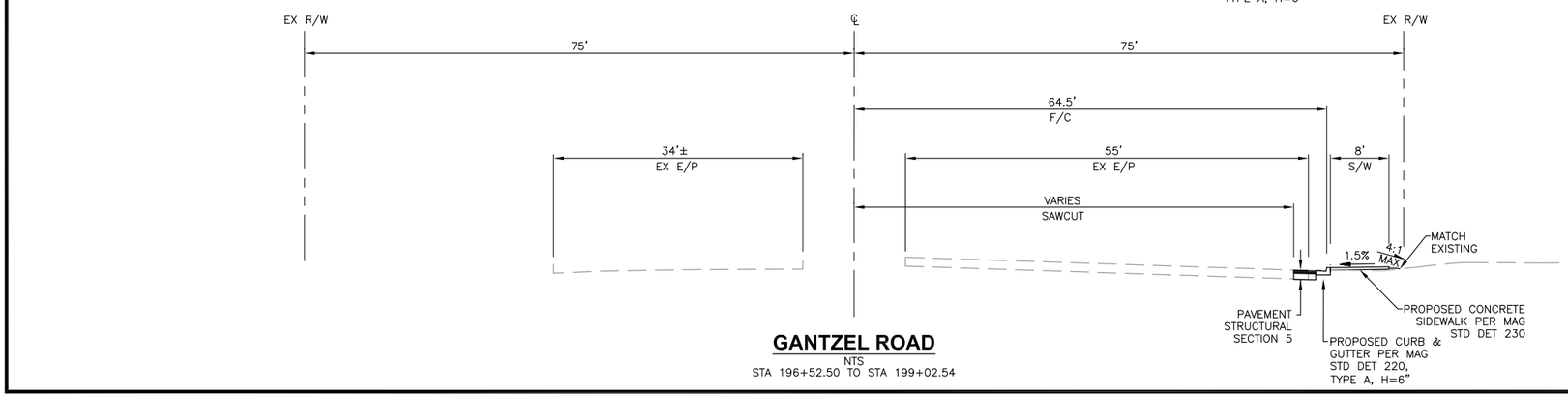
STA 193+00.00 TO STA 195+32.54



GANTZEL ROAD

NTS

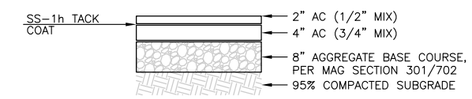
STA 195+32.54 TO STA 196+52.50



GANTZEL ROAD

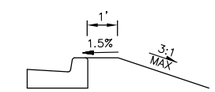
NTS

STA 196+52.50 TO STA 199+02.54



PAVEMENT STRUCTURAL SECTION NO. 5

NTS



BENCH DETAIL #1

NTS

NOTE: OVER–EXCAVATION OF 12" BELOW EXISTING GROUND FOR FILL CONDITIONS AND 12" BELOW SUBGRADE FOR CUT CONDITIONS. ENGINEERED FILL SHALL MEET THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT BY NINYO AND MOORE, DATED AUGUST 22, 2014.

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TYPICAL SECTIONS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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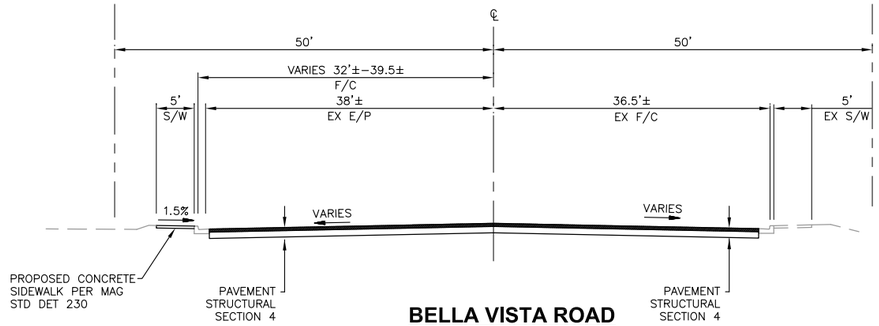
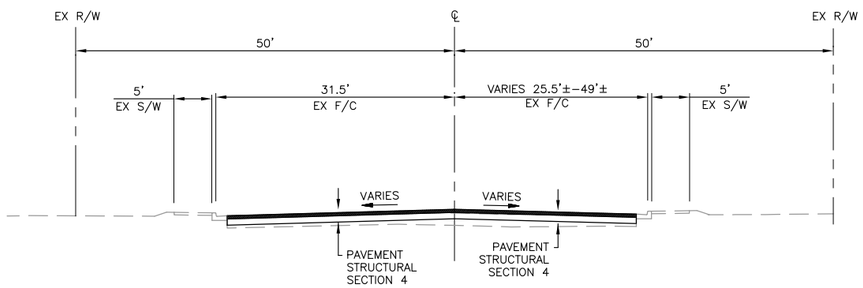
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BELLA VISTA ROAD

NTS

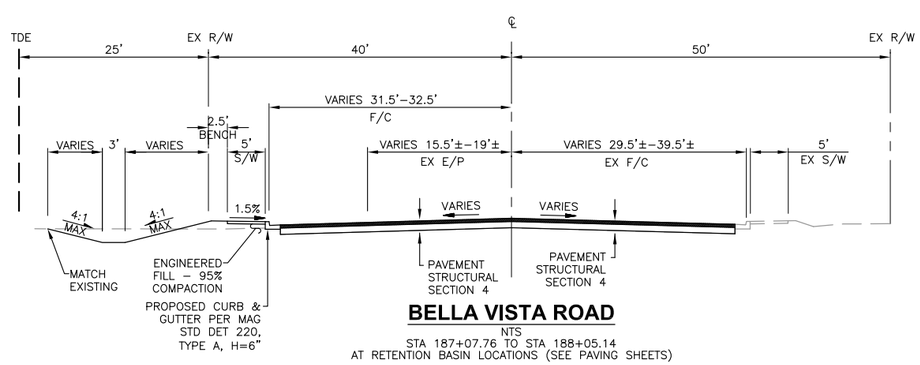
STA 144+66.50 TO STA 147+85.56



BELLA VISTA ROAD

NTS

STA 147+85.56 TO STA 187+07.76

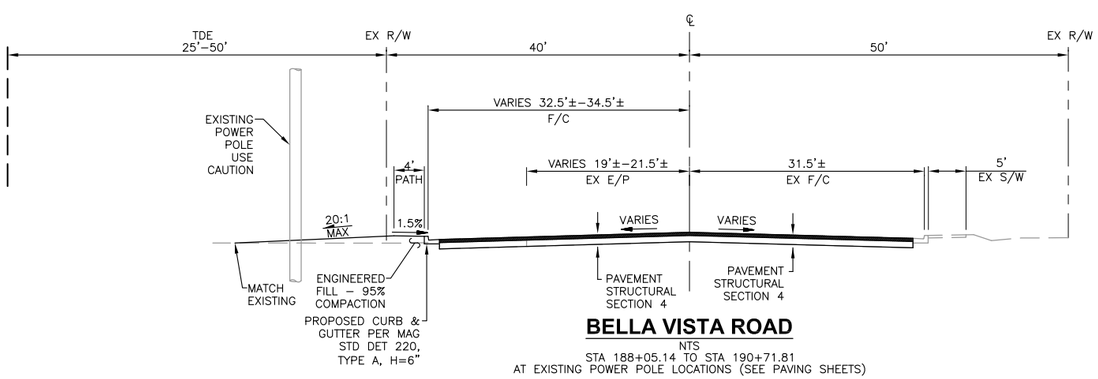


BELLA VISTA ROAD

NTS

STA 187+07.76 TO STA 188+05.14

AT RETENTION BASIN LOCATIONS (SEE PAVING SHEETS)

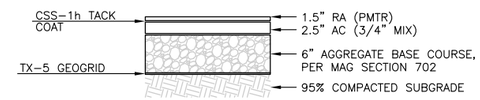


BELLA VISTA ROAD

NTS

STA 188+05.14 TO STA 190+71.81

AT EXISTING POWER POLE LOCATIONS (SEE PAVING SHEETS)



PAVEMENT STRUCTURAL SECTION NO. 4

NTS

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TYPICAL SECTIONS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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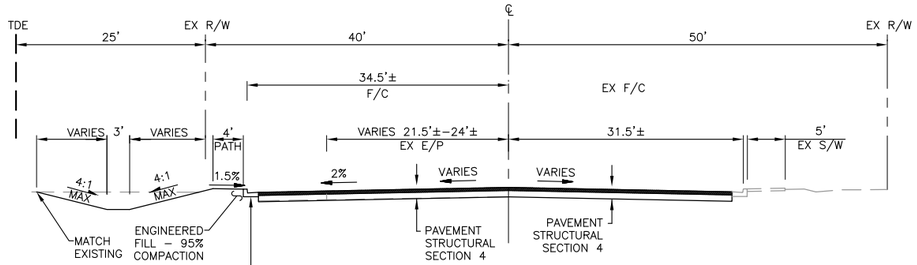
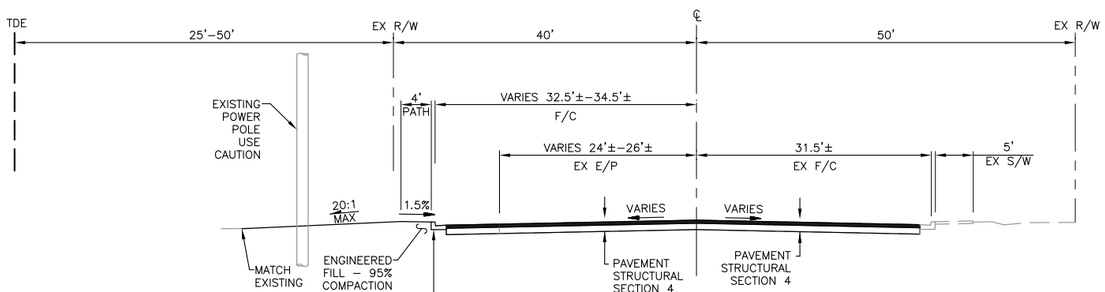
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BELLA VISTA ROAD

NTS
STA 190+71.81 TO STA 191+71.81
AT RETENTION BASIN LOCATIONS (SEE PAVING SHEETS)



BELLA VISTA ROAD

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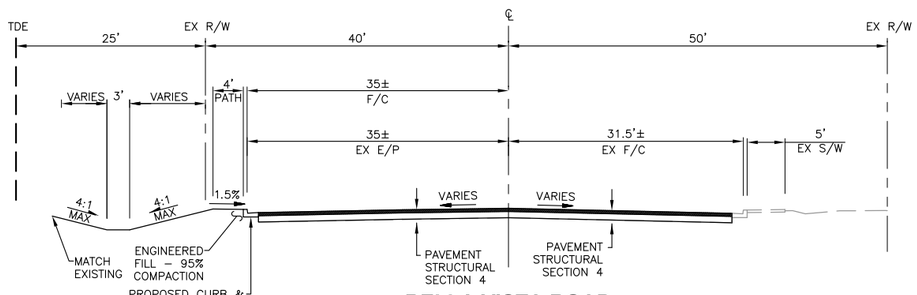
AT EXISTING POWER POLE LOCATIONS (SEE PAVING SHEETS)



BELLA VISTA ROAD

NTS
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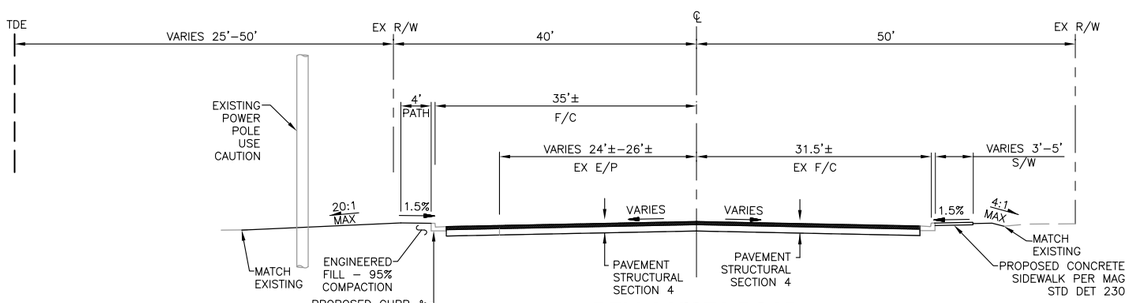
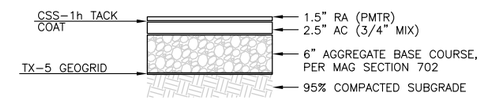
AT RETENTION BASIN LOCATIONS (SEE PAVING SHEETS)



BELLA VISTA ROAD

NTS
STA 197+07.50 TO STA 199+09.22
AT EXISTING POWER POLE LOCATIONS (SEE PAVING SHEETS)
*NOTE: STA 199+09.22 TO STA 200+86.52 SEE INTERSECTION IMPROVEMENTS



PAVEMENT STRUCTURAL SECTION NO. 4

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 9/30/17

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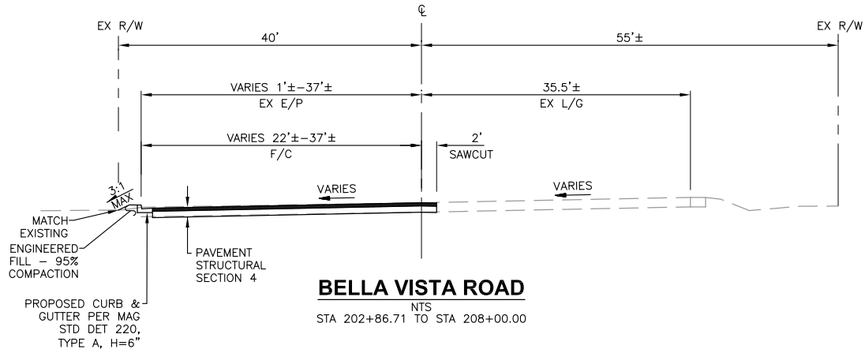
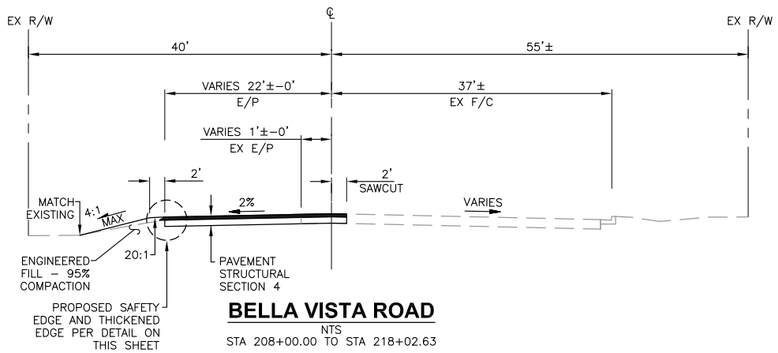
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BELLA VISTA ROAD

NTS

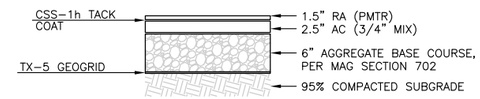
STA 202+86.71 TO STA 208+00.00



BELLA VISTA ROAD

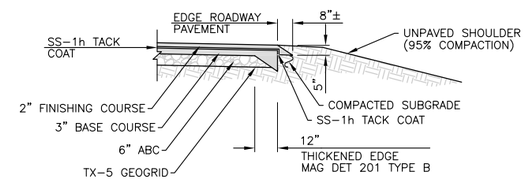
NTS

STA 208+00.00 TO STA 218+02.63



PAVEMENT STRUCTURAL SECTION NO. 4

NTS



SAFETY EDGE DETAIL

NTS

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ENGINEERING BRANCH
DESIGN SECTION

TYPICAL SECTIONS

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 16A OF 176

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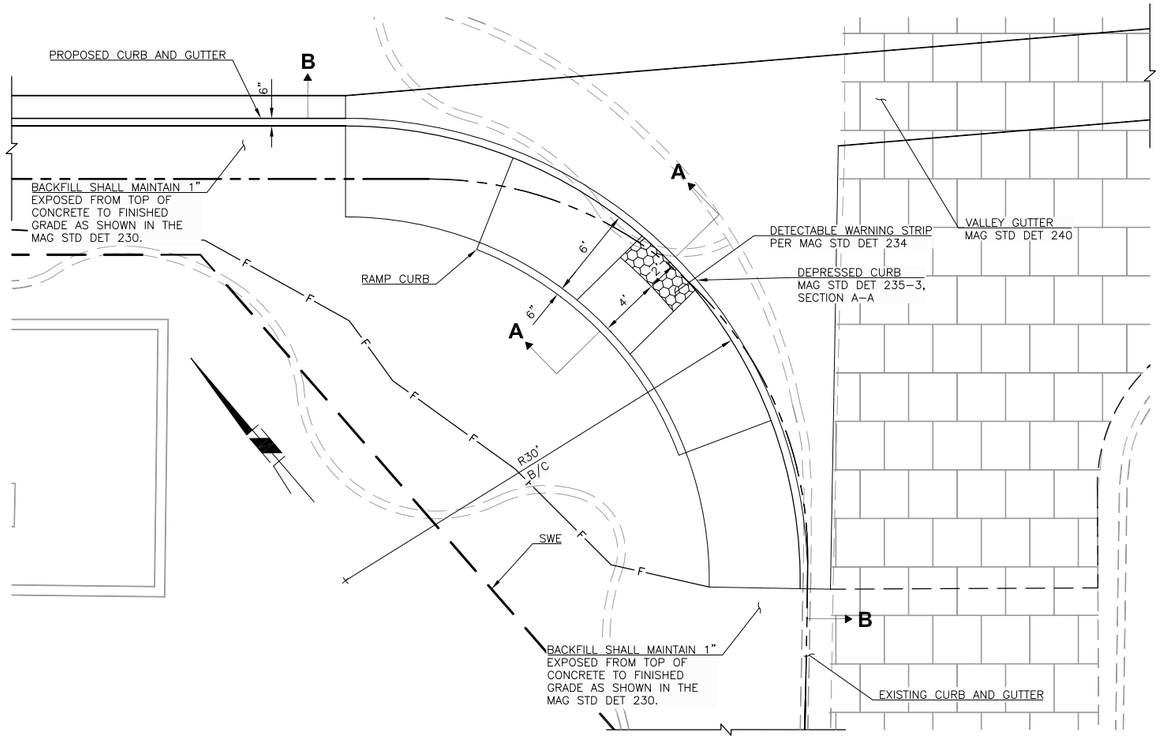
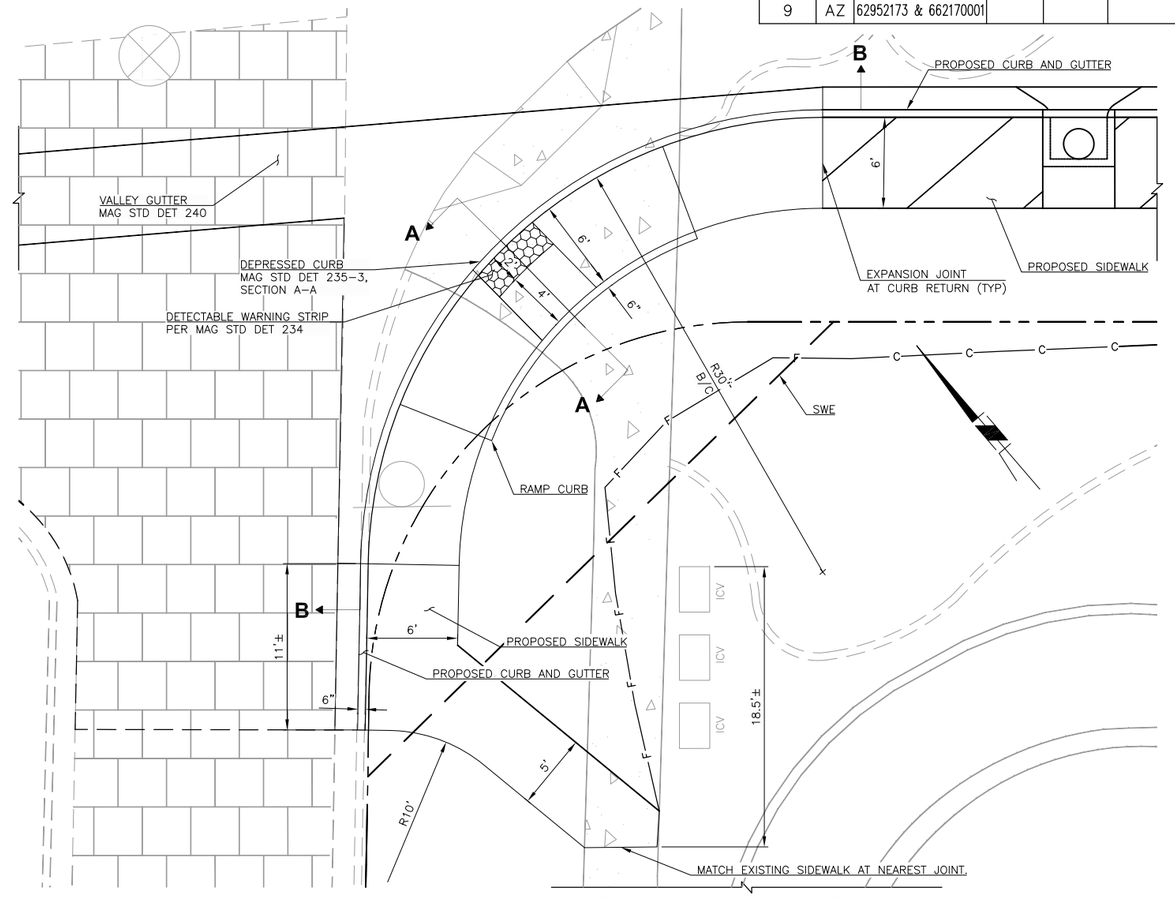
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



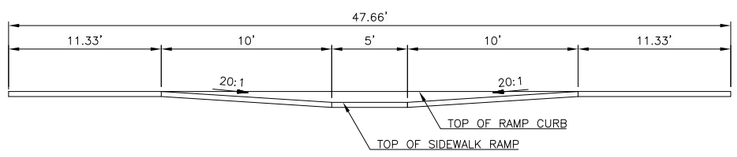
TUMBLING RIVER ROAD WEST SIDEWALK RAMP DETAIL

SEE SHEET 50
SCALE: 1"=5' H
1"=5' V



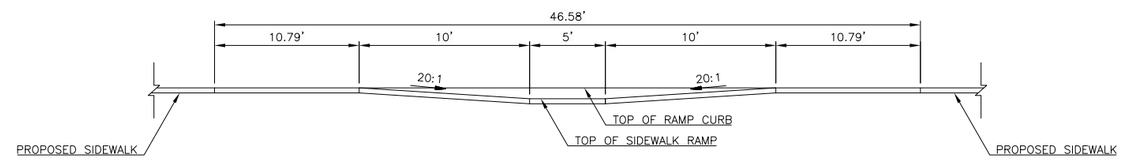
TUMBLING RIVER ROAD EAST SIDEWALK RAMP DETAIL

SEE SHEET 50
SCALE: 1"=5' H
1"=5' V



TUMBLING RIVER ROAD WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



TUMBLING RIVER ROAD EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB

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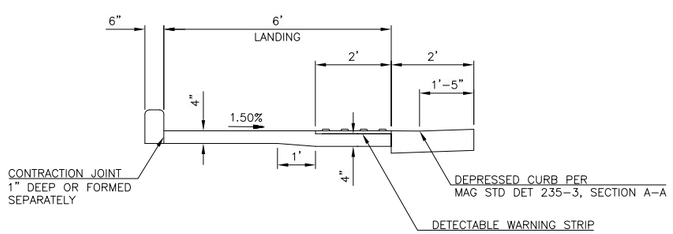
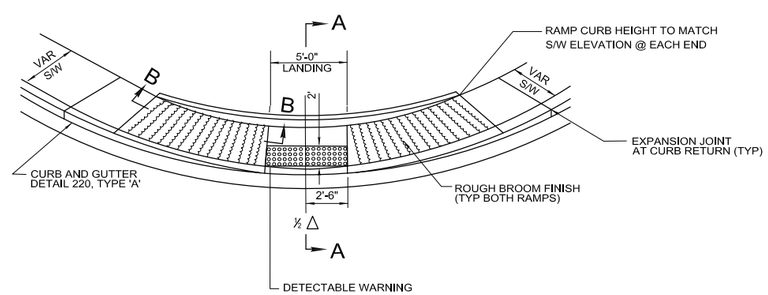


SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

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DESIGN SECTION

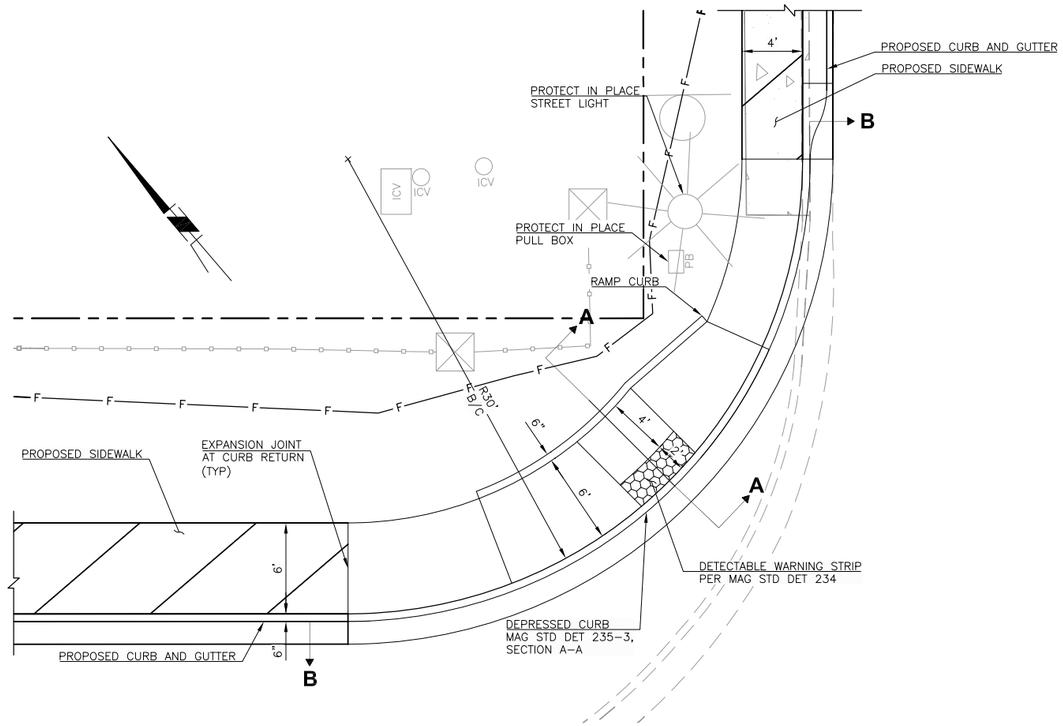
DETAIL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

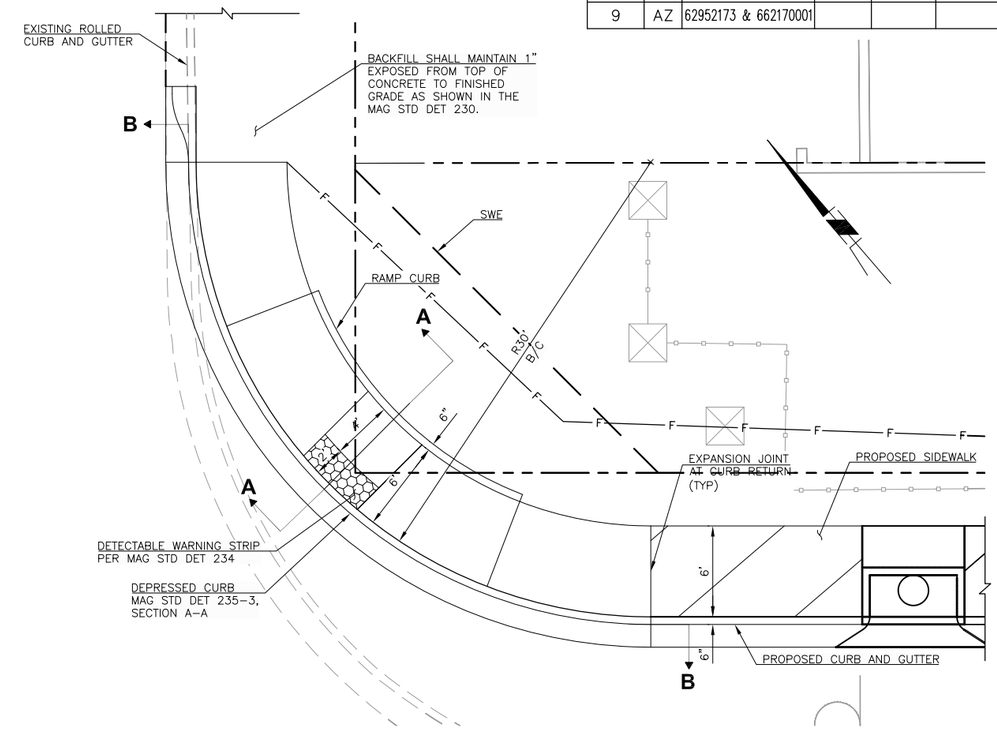
Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Details\662173_17-30_Detail_Sidewalk_Ramps.dwg 9/1/2015 9:35:35 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



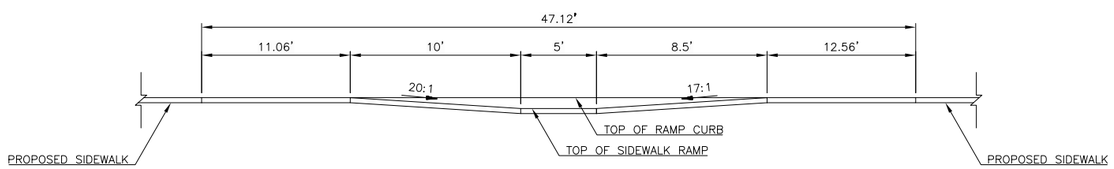
CHESTNUT TRAIL WEST SIDEWALK RAMP DETAIL

SEE SHEET 50
SCALE: 1"=5' H
1"=5' V



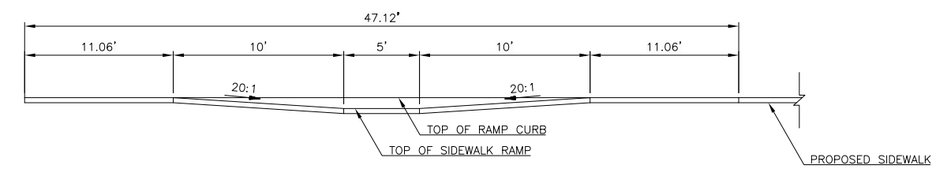
CHESTNUT TRAIL EAST SIDEWALK RAMP DETAIL

SEE SHEET 50
SCALE: 1"=5' H
1"=5' V



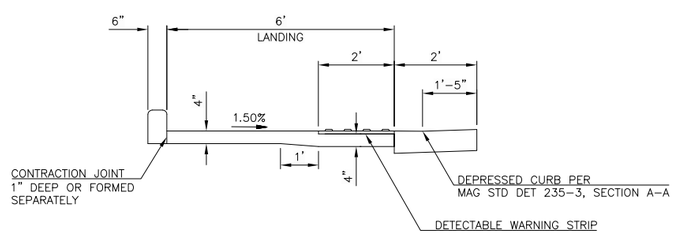
CHESTNUT TRAIL WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



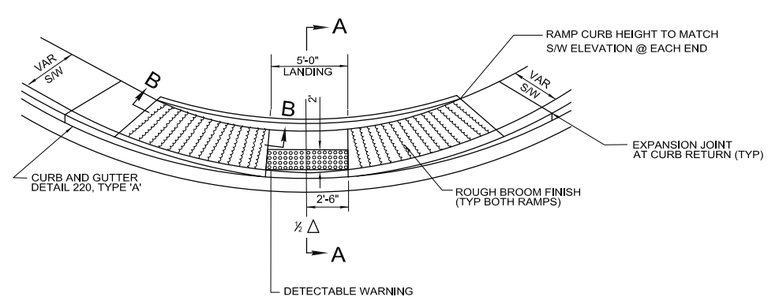
CHESTNUT TRAIL EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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DESIGN SECTION

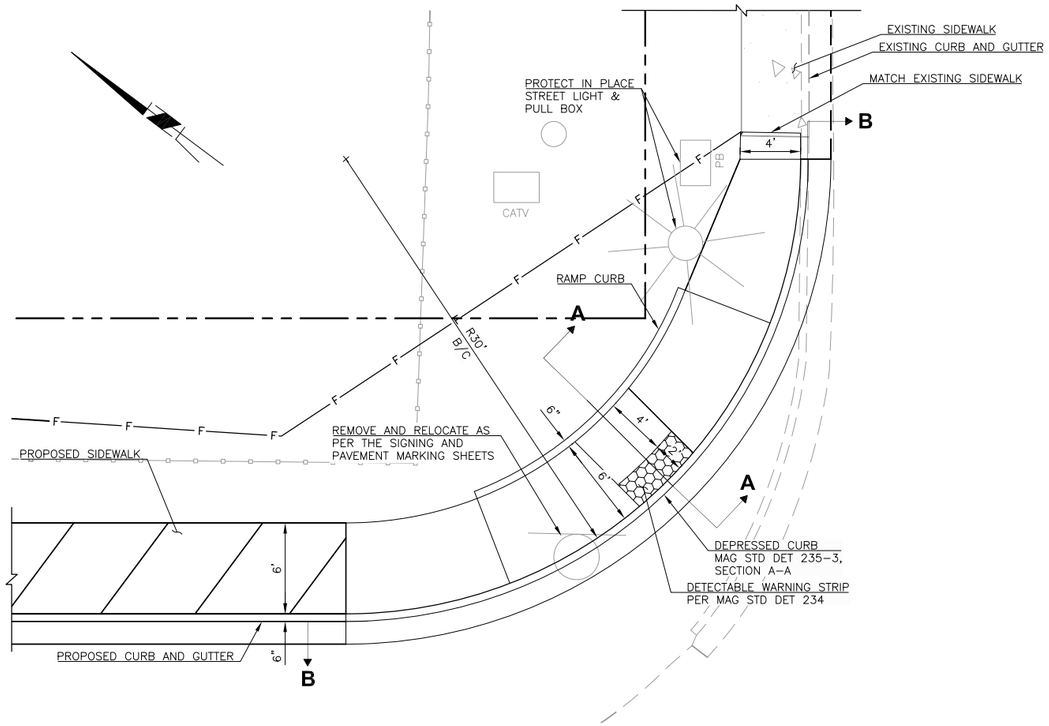
DETAIL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

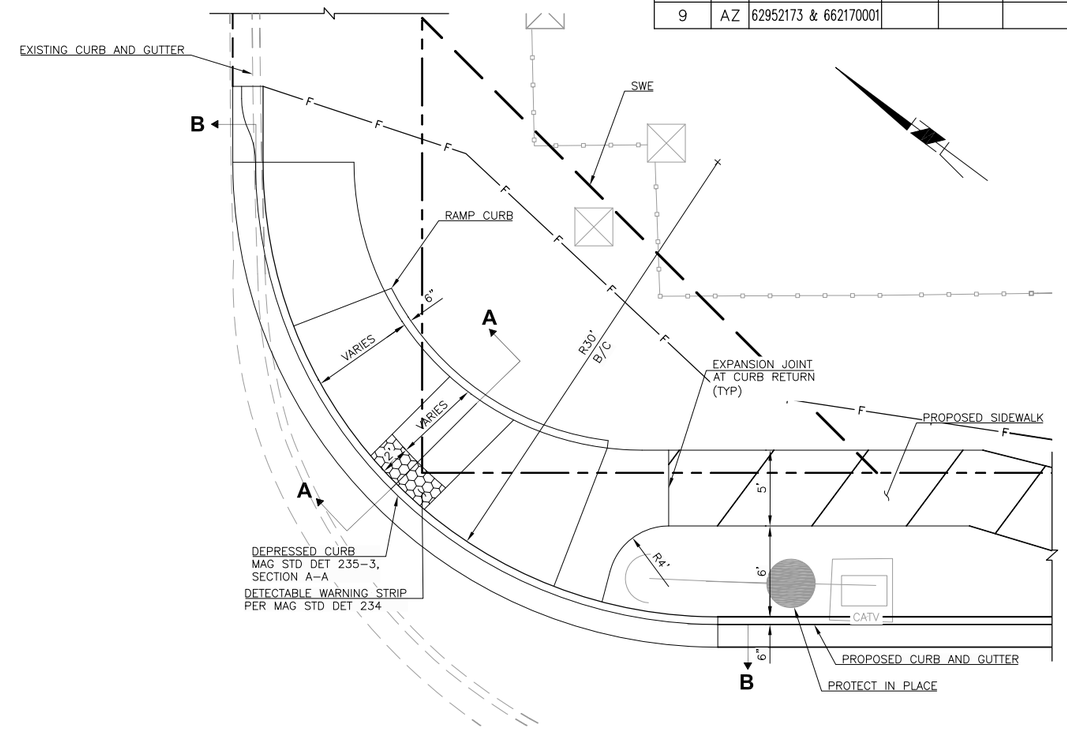
Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Details\6621173_17-30_Detail_Sidewalk_Ramps.dwg 9/1/2015 9:36:07 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



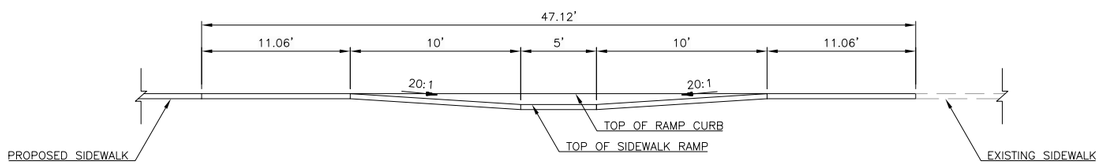
PASO FINO WAY WEST SIDEWALK RAMP DETAIL

SEE SHEET 52
SCALE: 1"=5' H
1"=5' V



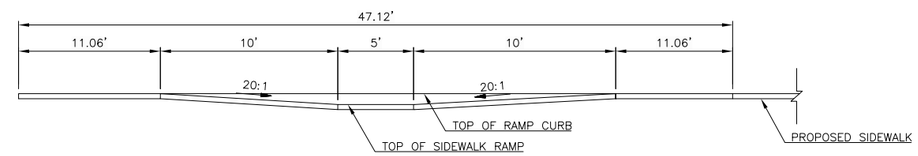
PASO FINO WAY EAST SIDEWALK RAMP DETAIL

SEE SHEET 52
SCALE: 1"=5' H
1"=5' V



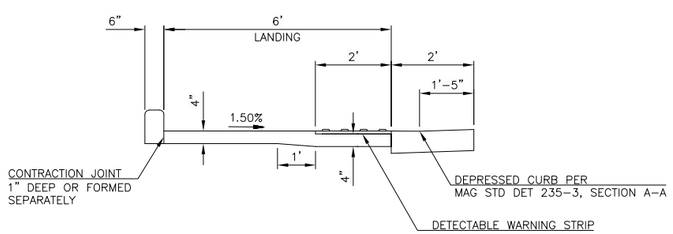
PASO FINO WAY WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



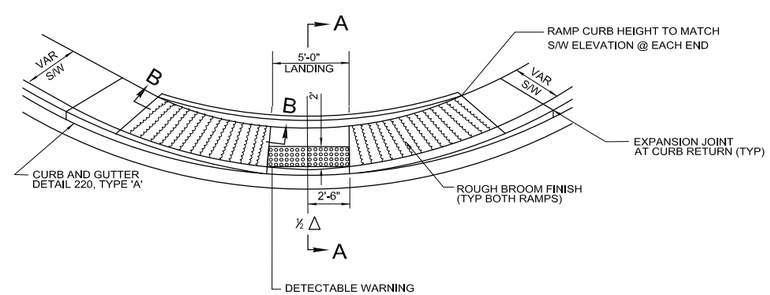
PASO FINO WAY EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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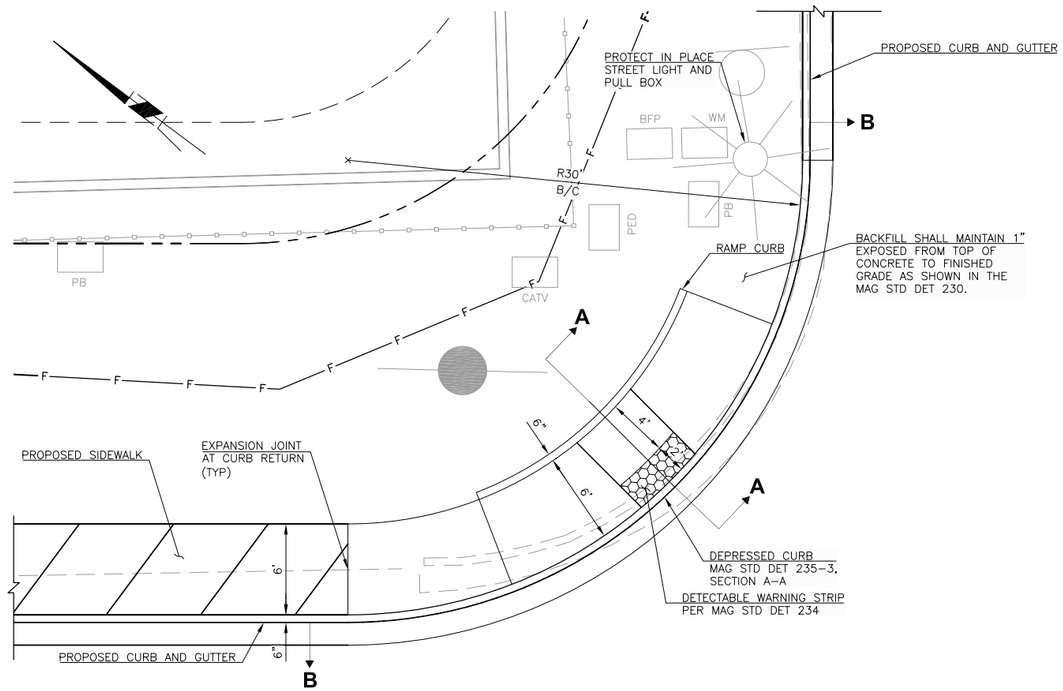
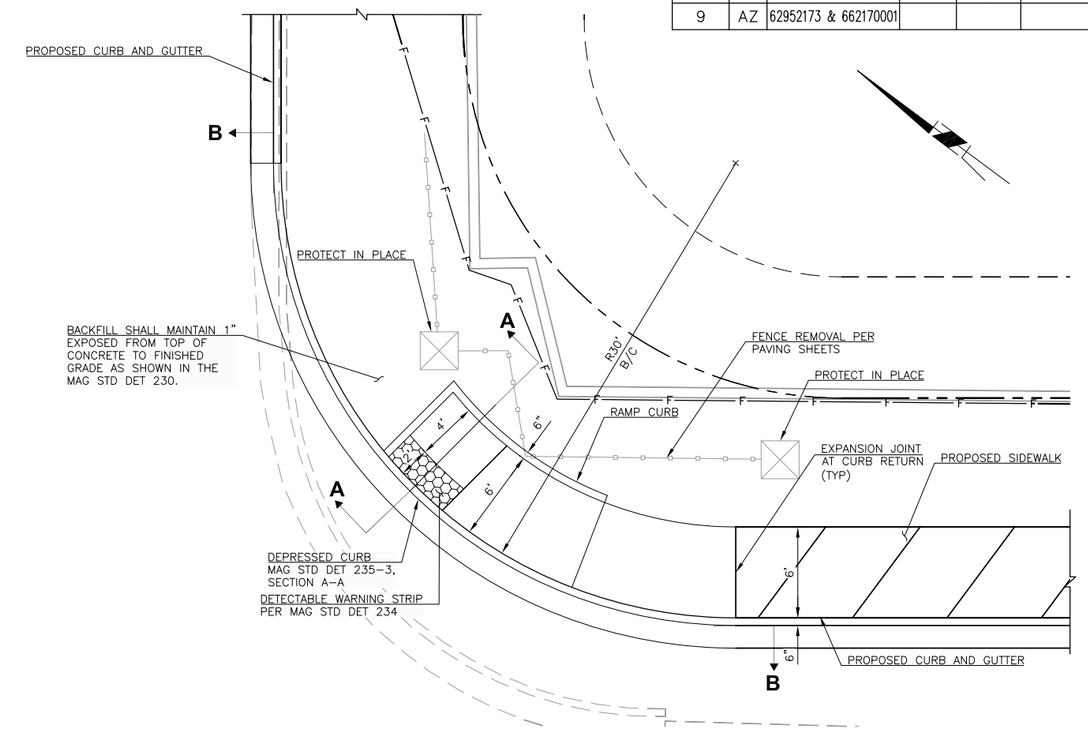
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



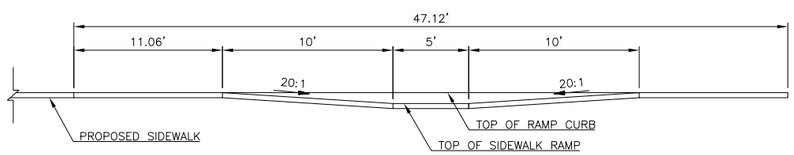
STARDUST WAY WEST SIDEWALK RAMP DETAIL

SEE SHEET 53
SCALE: 1"=5' H
1"=5' V



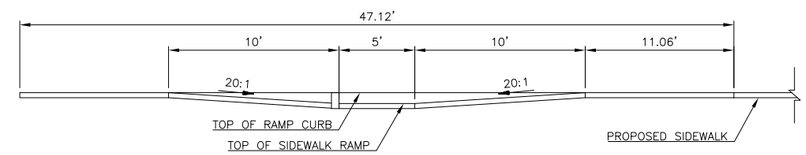
STARDUST WAY EAST SIDEWALK RAMP DETAIL

SEE SHEET 53
SCALE: 1"=5' H
1"=5' V



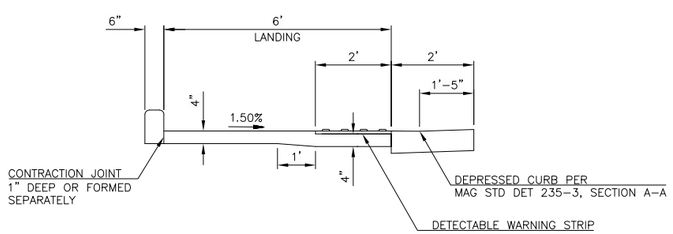
STARDUST WAY WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



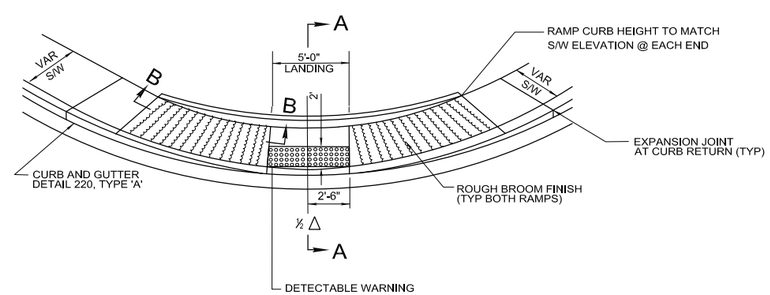
STARDUST WAY EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

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DRAWN	DR	9/15
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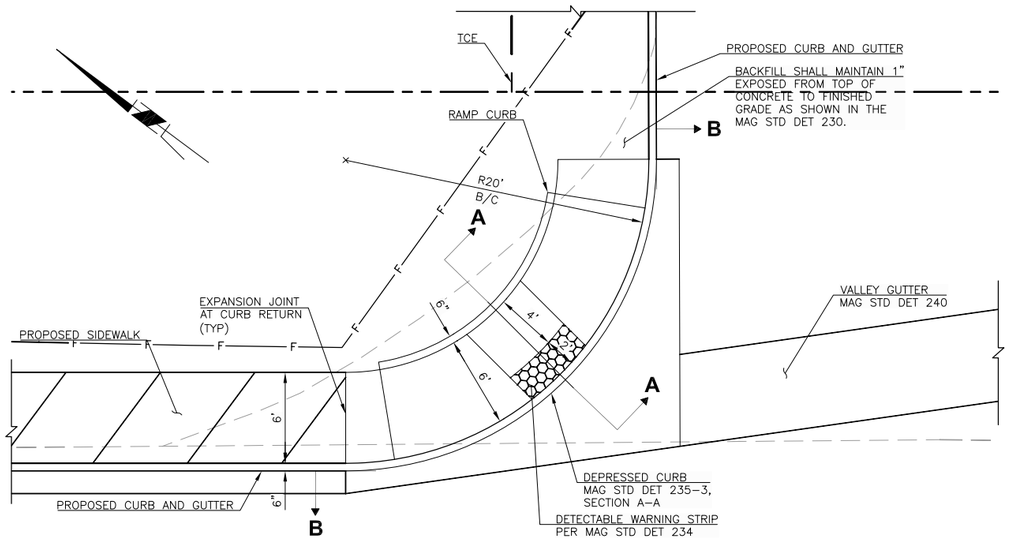
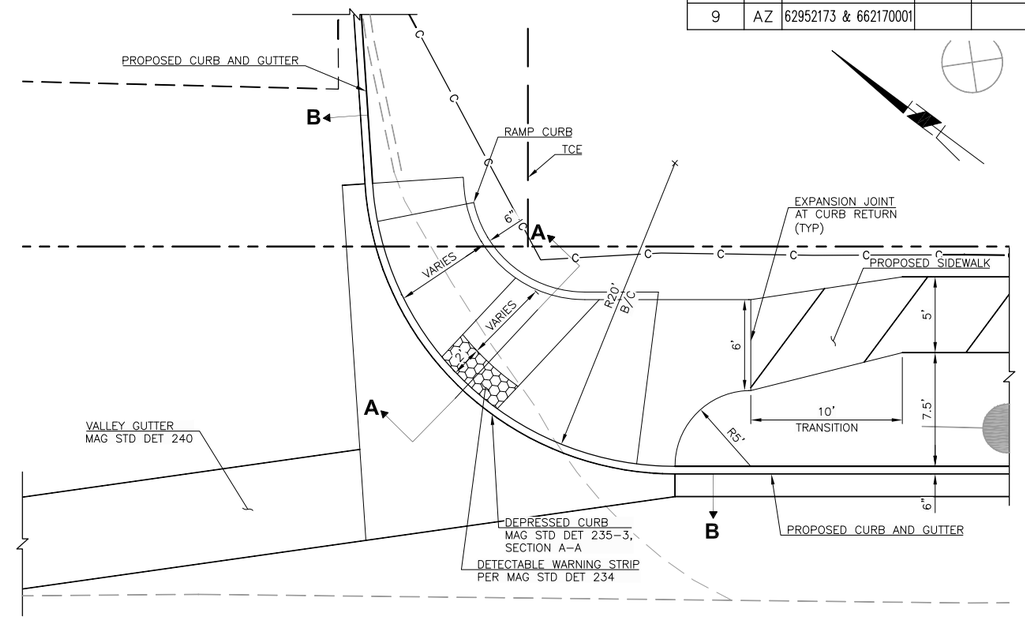
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



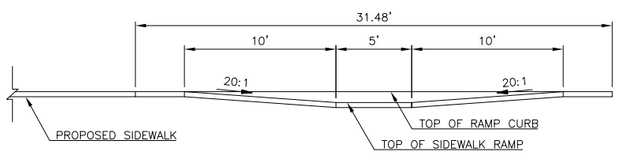
STA 375+36 WEST SIDEWALK RAMP DETAIL

SEE SHEET 54
SCALE: 1"=5' H
1"=5' V



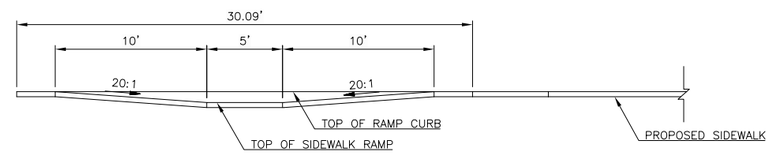
STA 375+36 EAST SIDEWALK RAMP DETAIL

SEE SHEET 54
SCALE: 1"=5' H
1"=5' V



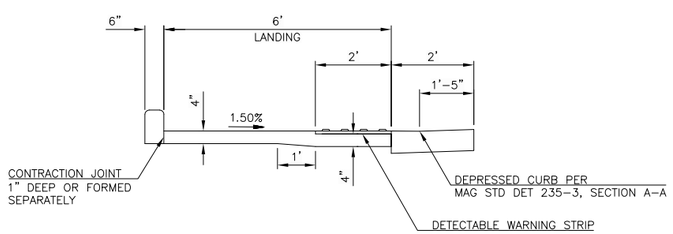
WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



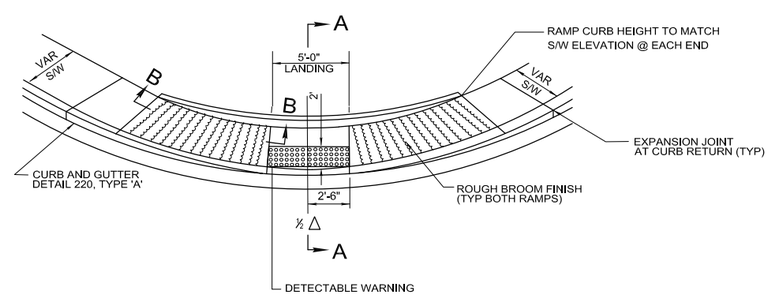
EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

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DRAWN	DR	9/15
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SHEET 21 OF 176

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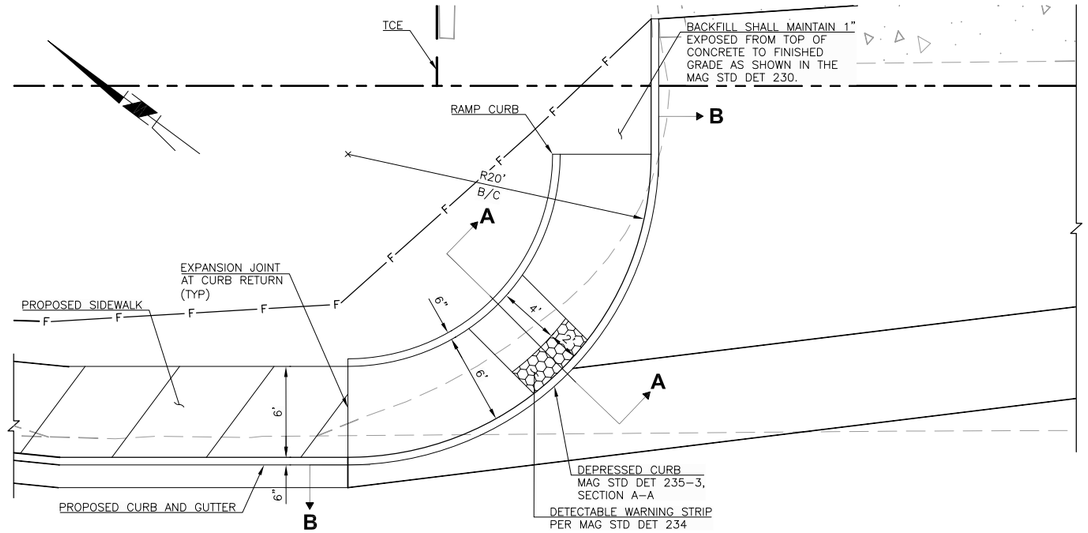
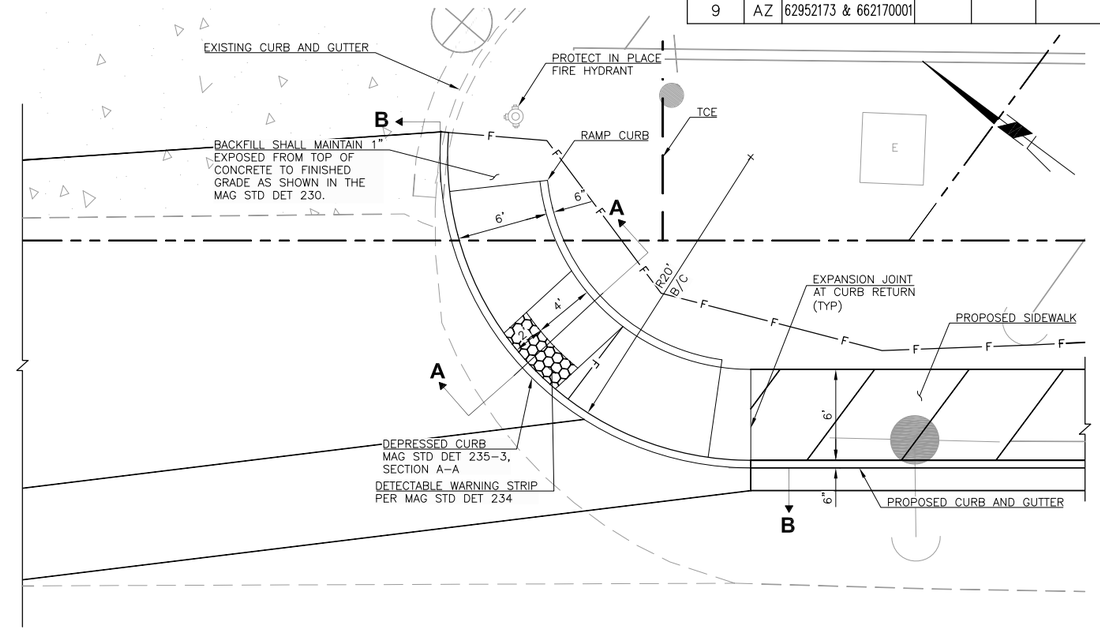
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



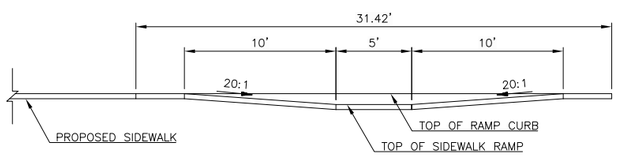
STA 378+20 WEST SIDEWALK RAMP DETAIL

SEE SHEET 55
SCALE: 1"=5' H
1"=5' V



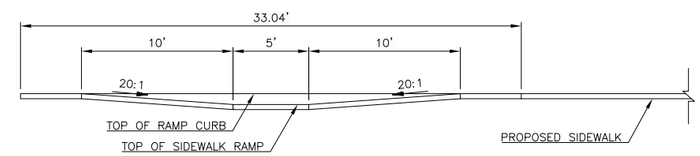
STA 378+20 EAST SIDEWALK RAMP DETAIL

SEE SHEET 55
SCALE: 1"=5' H
1"=5' V



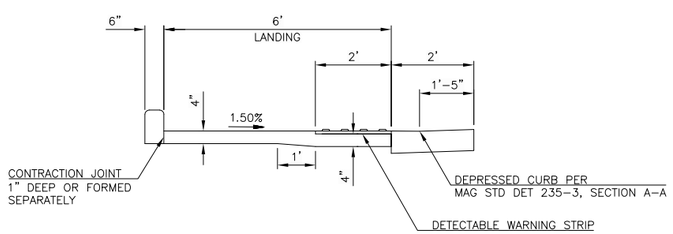
CIRCLE K WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



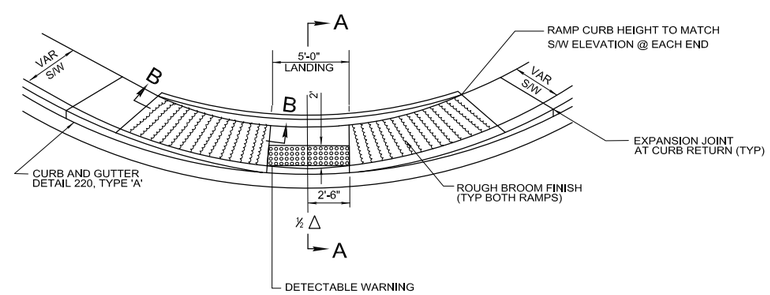
CIRCLE K EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

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DRAWN	DR	9/15
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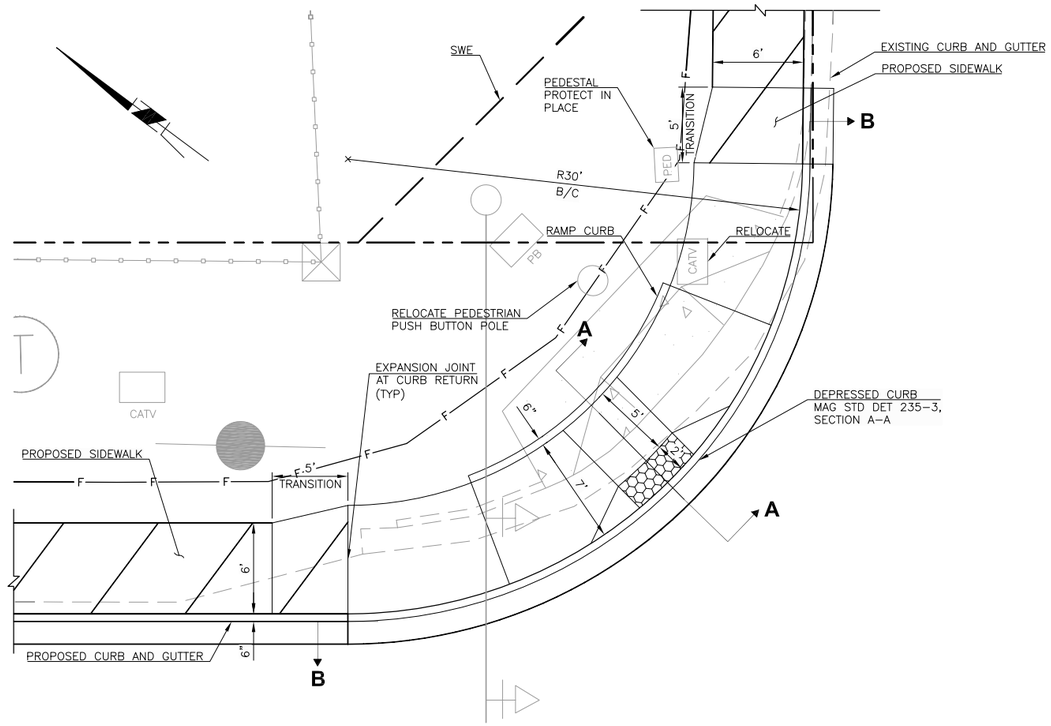
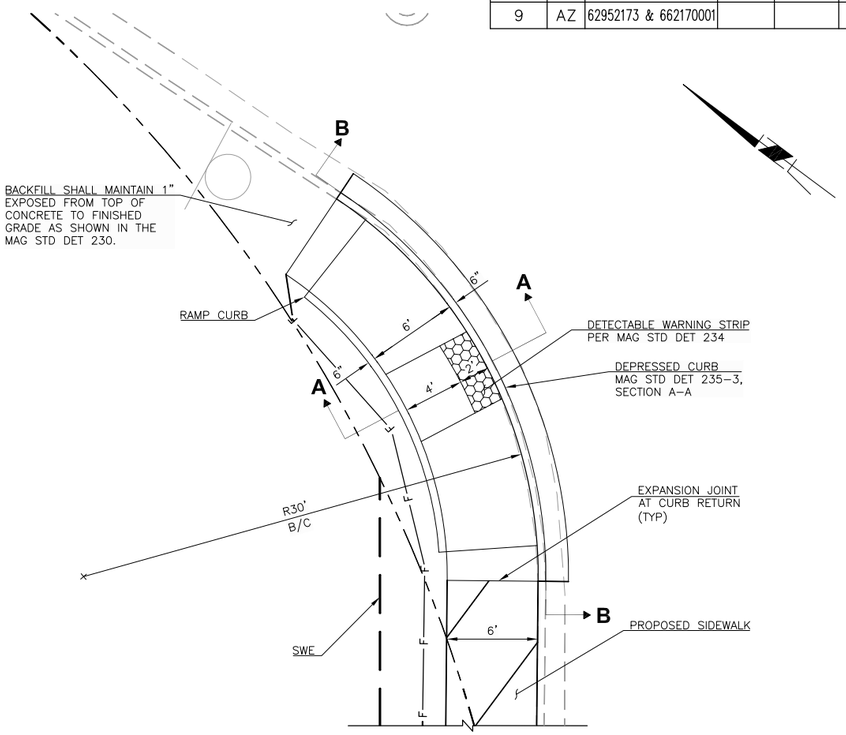
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



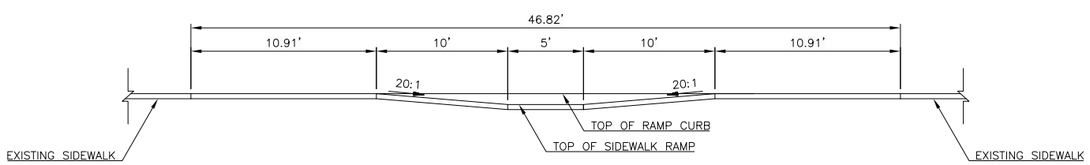
BELLA VISTA ROAD EAST SIDEWALK RAMP DETAIL

SEE SHEET 55
SCALE: 1"=5' H
1"=5' V



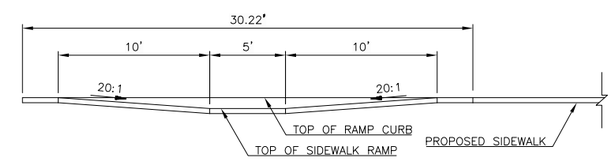
BELLA VISTA ROAD WEST SIDEWALK RAMP DETAIL

SEE SHEET 65
SCALE: 1"=5' H
1"=5' V



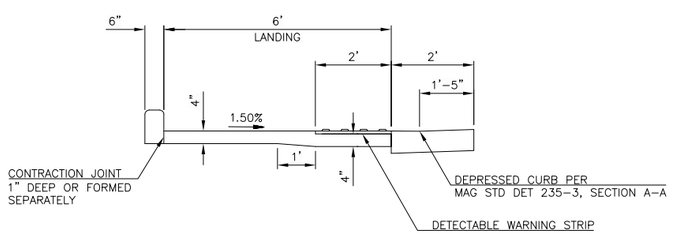
BELLA VISTA ROAD EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



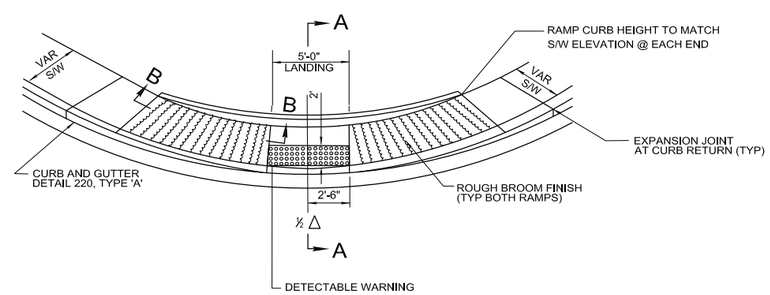
BELLA VISTA ROAD WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

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DRAWN	DR	9/15
CHECKED	CSS	9/15

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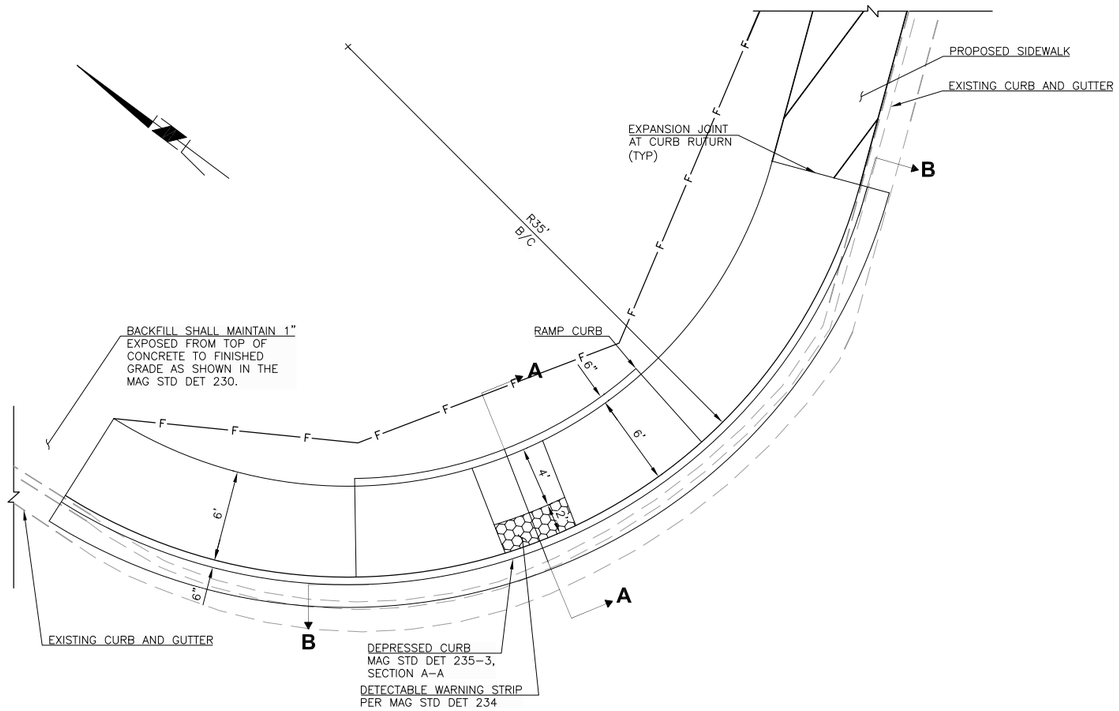
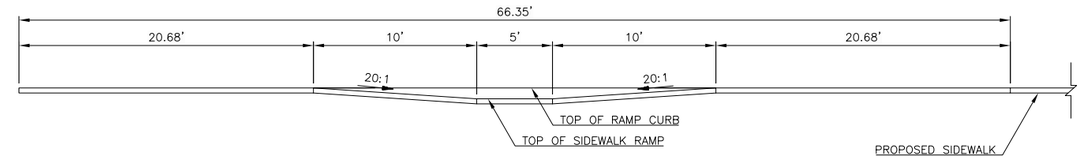
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BELLA VISTA EAST SIDEWALK RAMP DETAIL

SEE SHEET 65

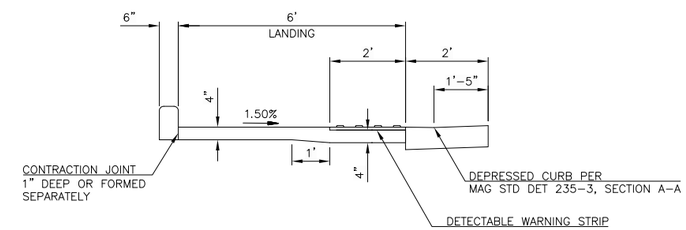
SCALE: 1"=5' H
1"=5' V



BELLA VISTA EAST SIDEWALK RAMP SECTION B-B

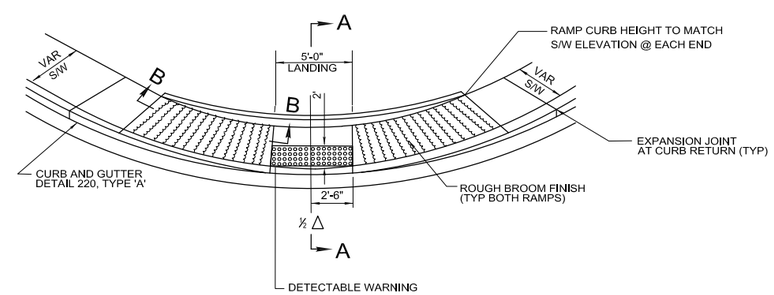
SCALE: 1"=5' H
1"=5' V

NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



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GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

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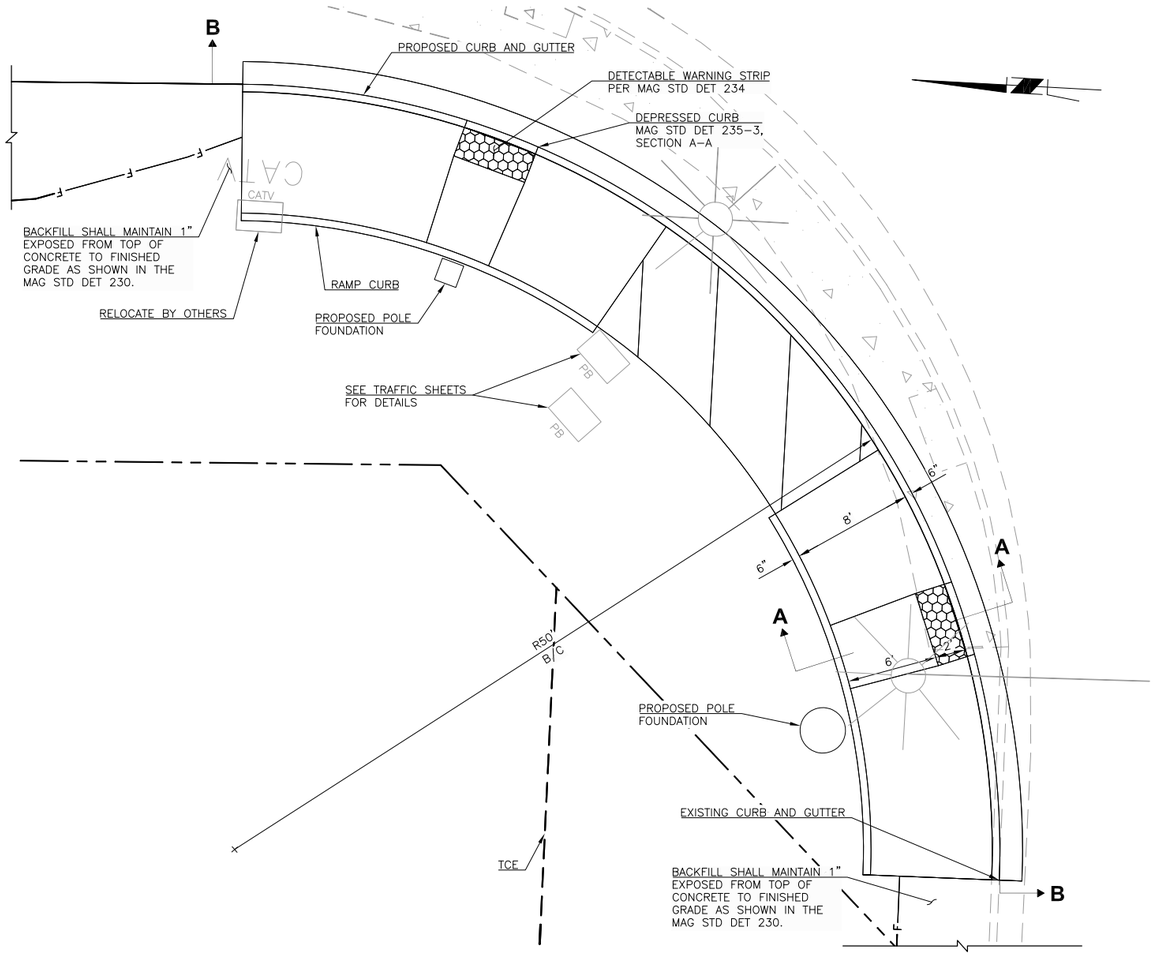
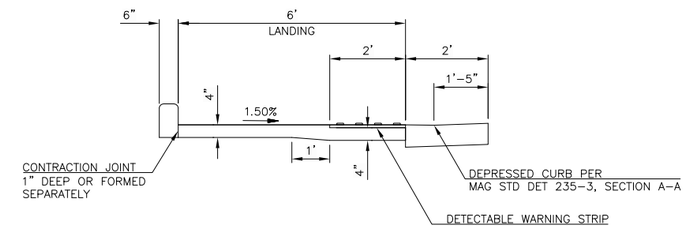
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD NORTH WEST SIDEWALK RAMP DETAIL

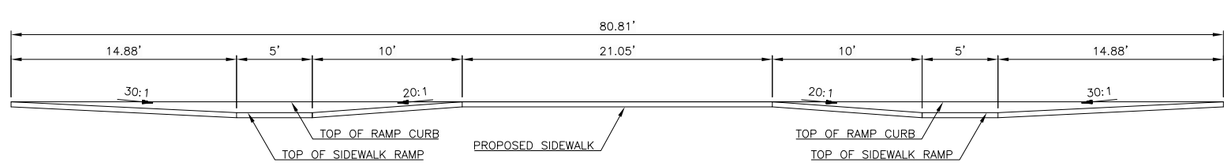
SEE SHEET 60

SCALE: 1"=5' H
1"=5' V



SECTION A-A

SCALE: 1"=2' H
1"=2' V



GANTZEL ROAD NORTH WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

DETAIL SHEET

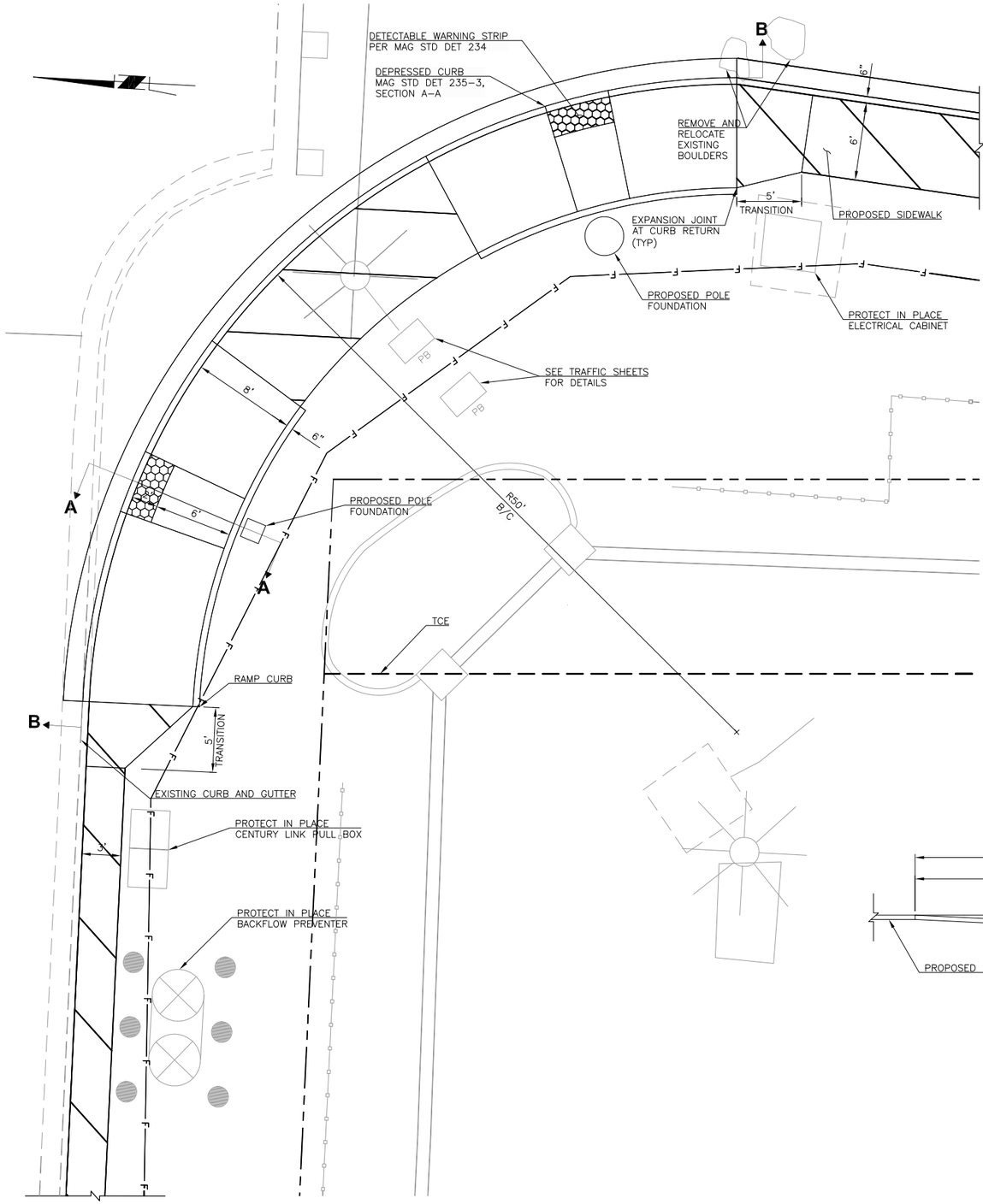
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/2/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 25 OF 176

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Details\6621173_17-30_Detail_Sidewalk_Ramps.dwg 9/2/2015 8:06:26 AM Carlos Sanchez-Soria TY Lin Half Scale.ctb

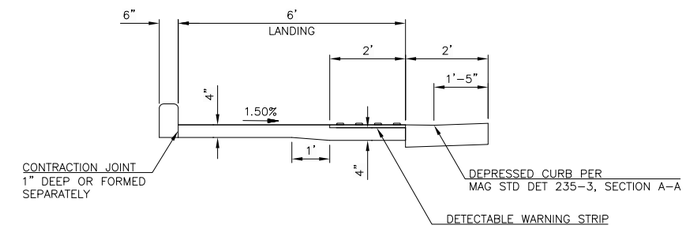
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD SOUTH WEST SIDEWALK RAMP DETAIL

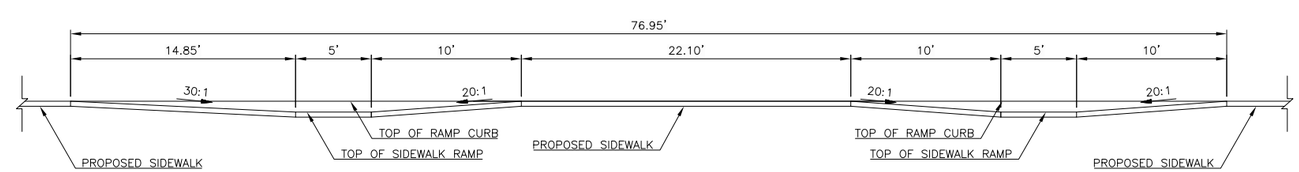
SEE SHEET 60

SCALE: 1"=5' H
1"=5' V



SECTION A-A

SCALE: 1"=2' H
1"=2' V



GANTZEL ROAD EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 48279
CARLOS SANCHEZ SORIA
Date Signed 9/2/15
ARIZONA, U.S.A.
Expires 9/30/17

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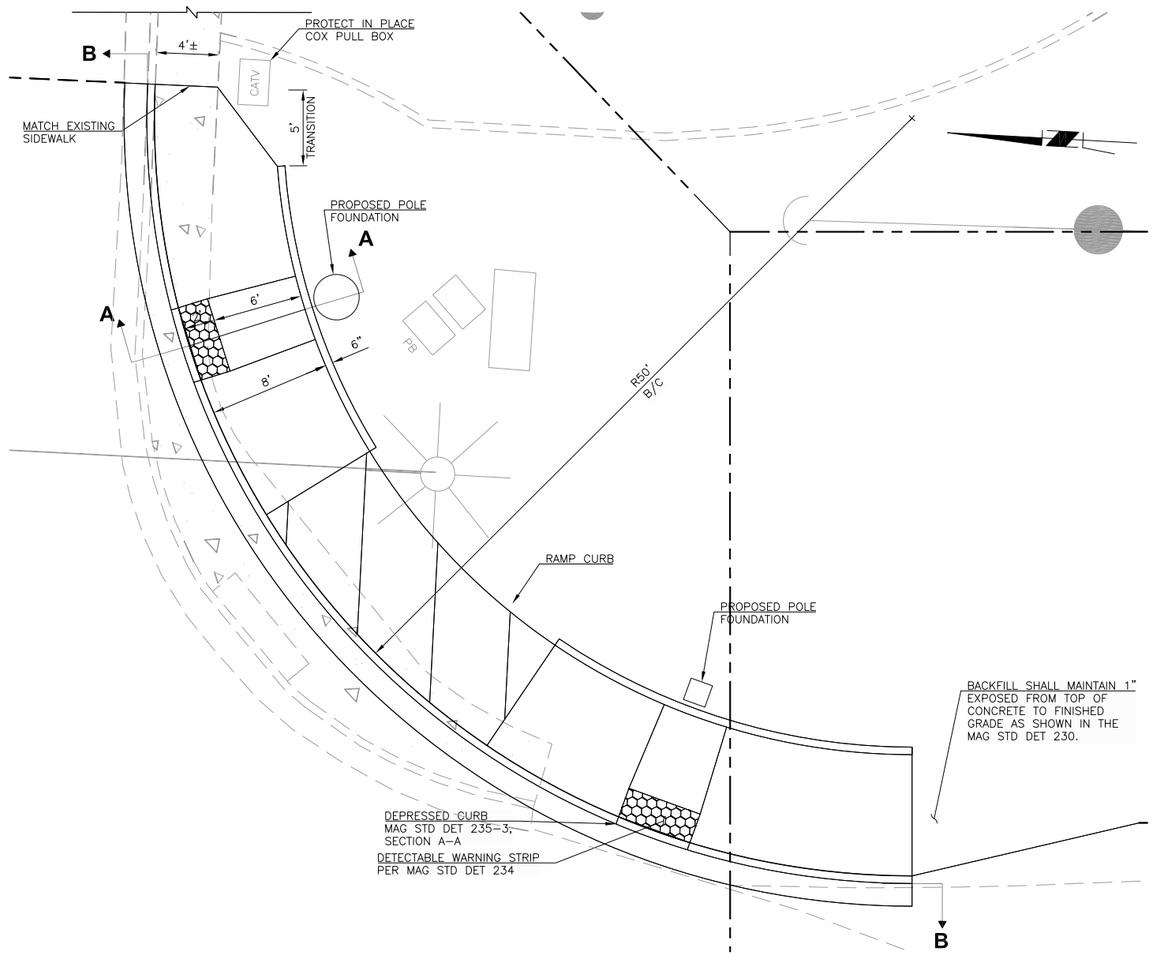
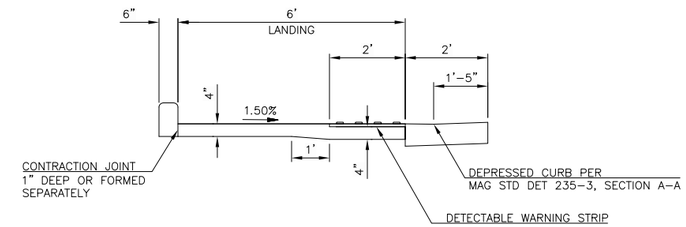
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD SOUTH EAST SIDEWALK RAMP DETAIL

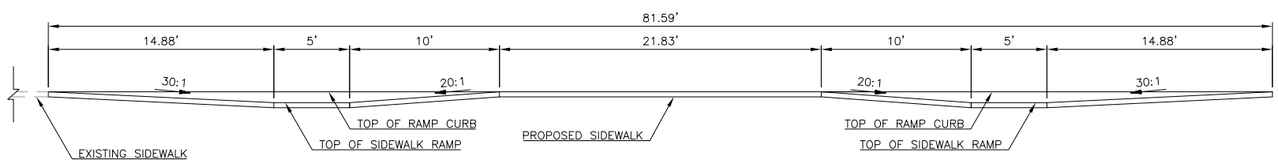
SEE SHEET 60

SCALE: 1"=5' H
1"=5' V



SECTION A-A

SCALE: 1"=2' H
1"=2' V



GANTZEL ROAD EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V

NOTE: DIMENSIONS TO BACK OF CURB

NO.	REVISION	BY	APPR	DATE

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DRAWN	DR	9/15
CHECKED	CSS	9/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
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DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
49279
CARLOS SANCHEZ SORIA
Date Signed 9/2/15
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Expires 9/30/17

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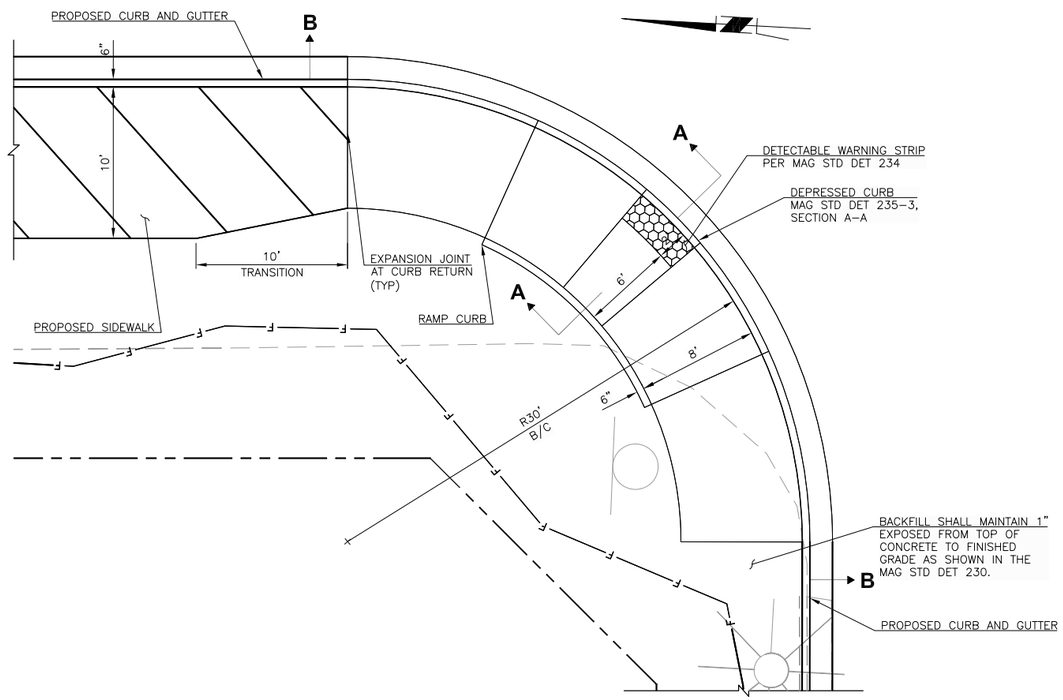
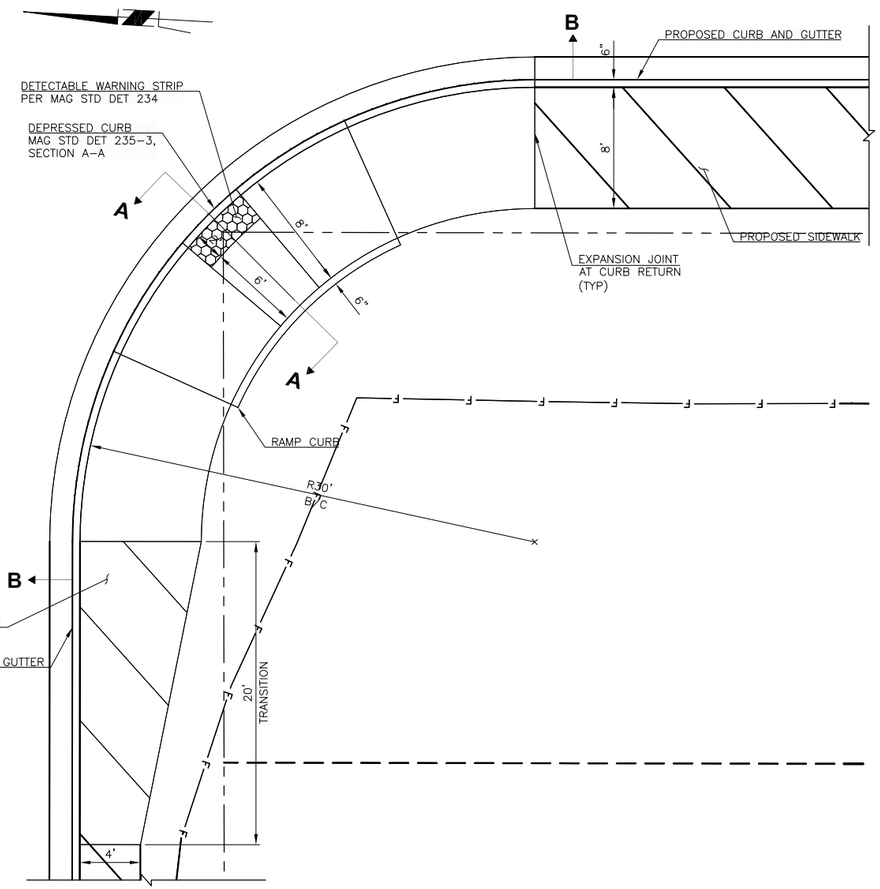
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



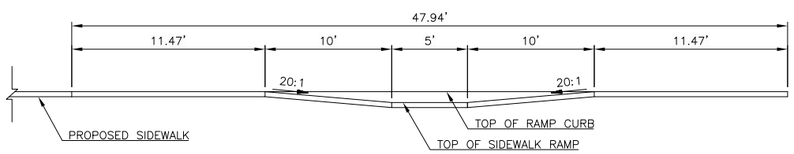
DENIM TRAIL NORTH SIDEWALK RAMP DETAIL

SEE SHEET 58
SCALE: 1"=5' H
1"=5' V



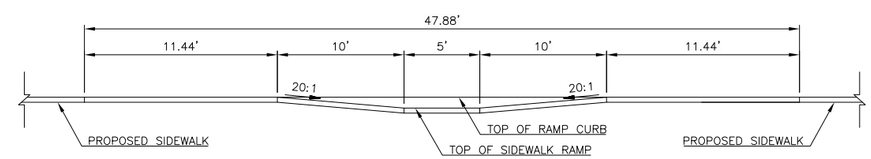
DENIM TRAIL SOUTH SIDEWALK RAMP DETAIL

SEE SHEET 58
SCALE: 1"=5' H
1"=5' V



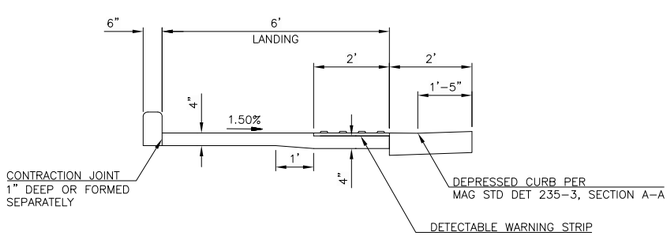
DENIM TRAIL WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



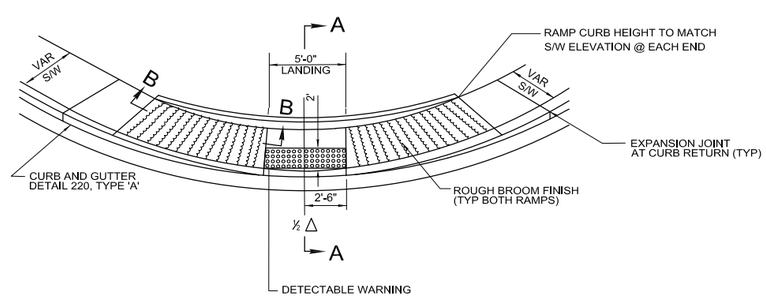
DENIM TRAIL EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

DETAIL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 28 OF 176

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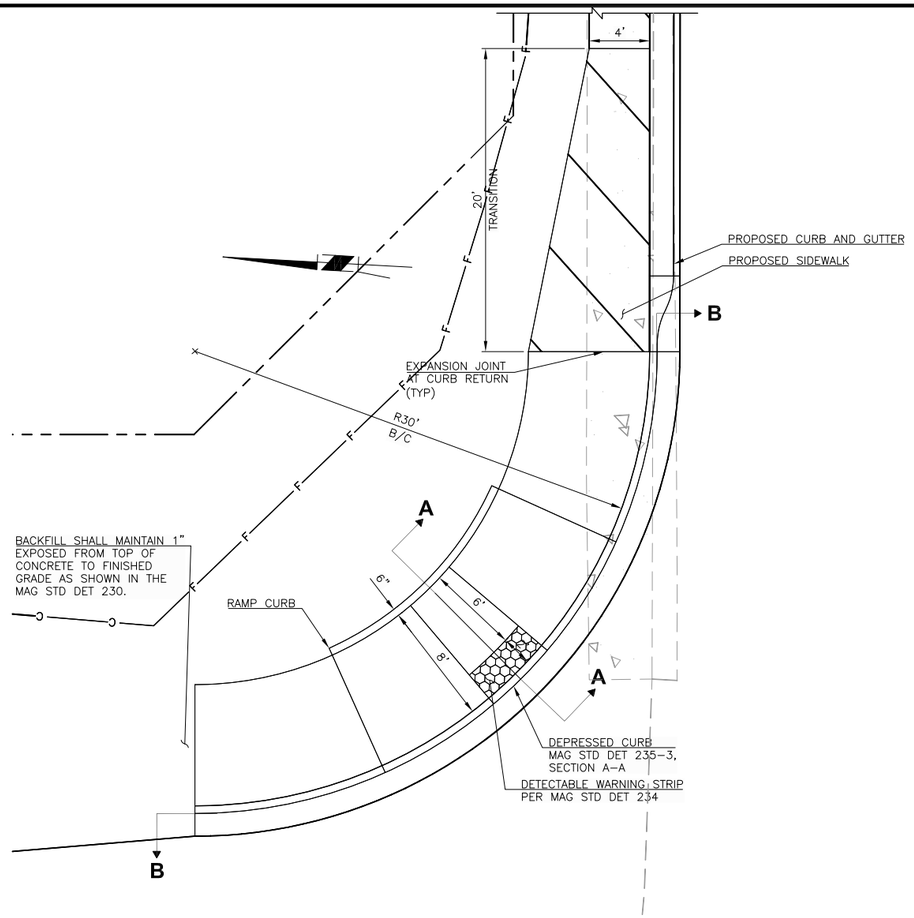
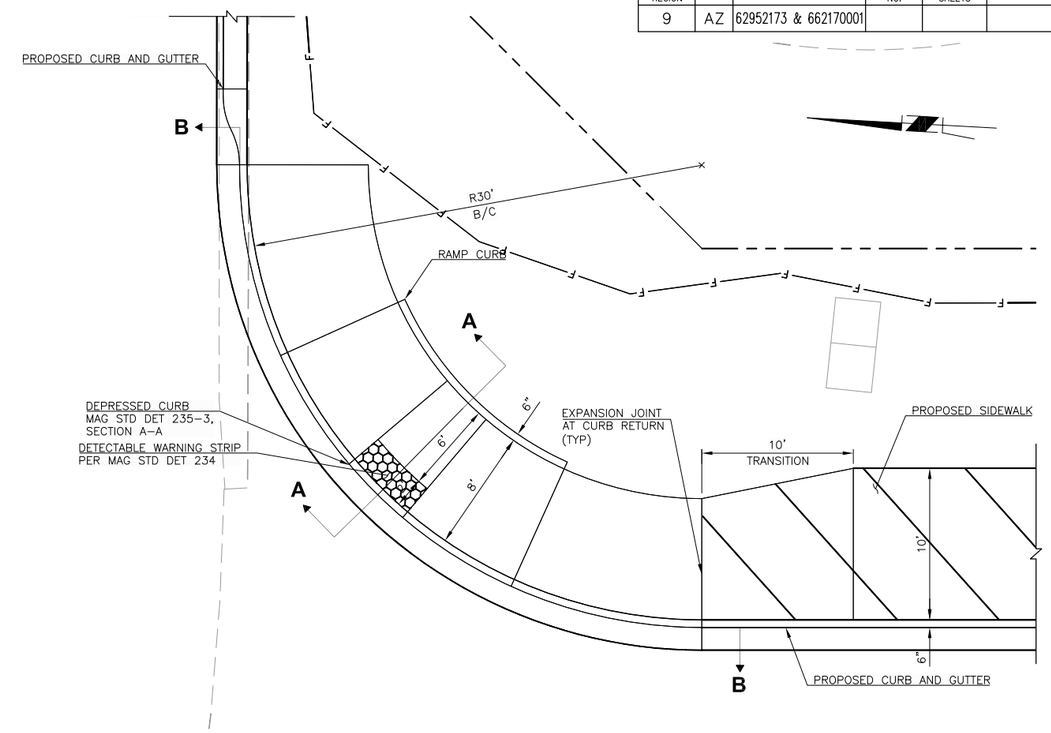
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



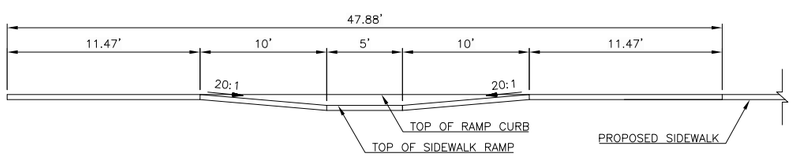
REBECCA LANE NORTH SIDEWALK RAMP DETAIL

SEE SHEET 58
SCALE: 1"=5' H
1"=5' V



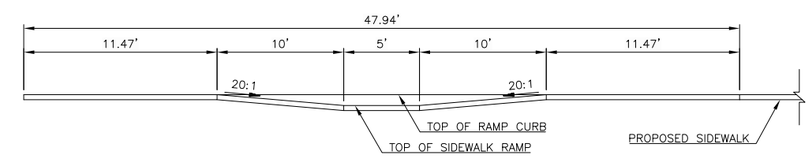
REBECCA LANE SOUTH SIDEWALK RAMP DETAIL

SEE SHEET 58
SCALE: 1"=5' H
1"=5' V



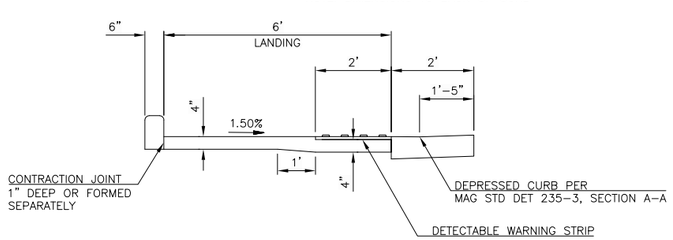
REBECCA LANE WEST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



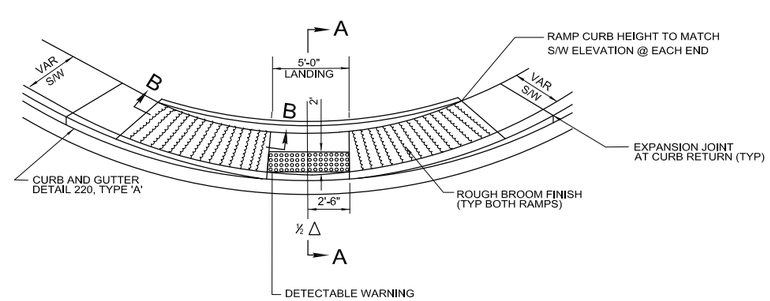
REBECCA LANE EAST SIDEWALK RAMP SECTION B-B

SCALE: 1"=5' H
1"=5' V
NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 46279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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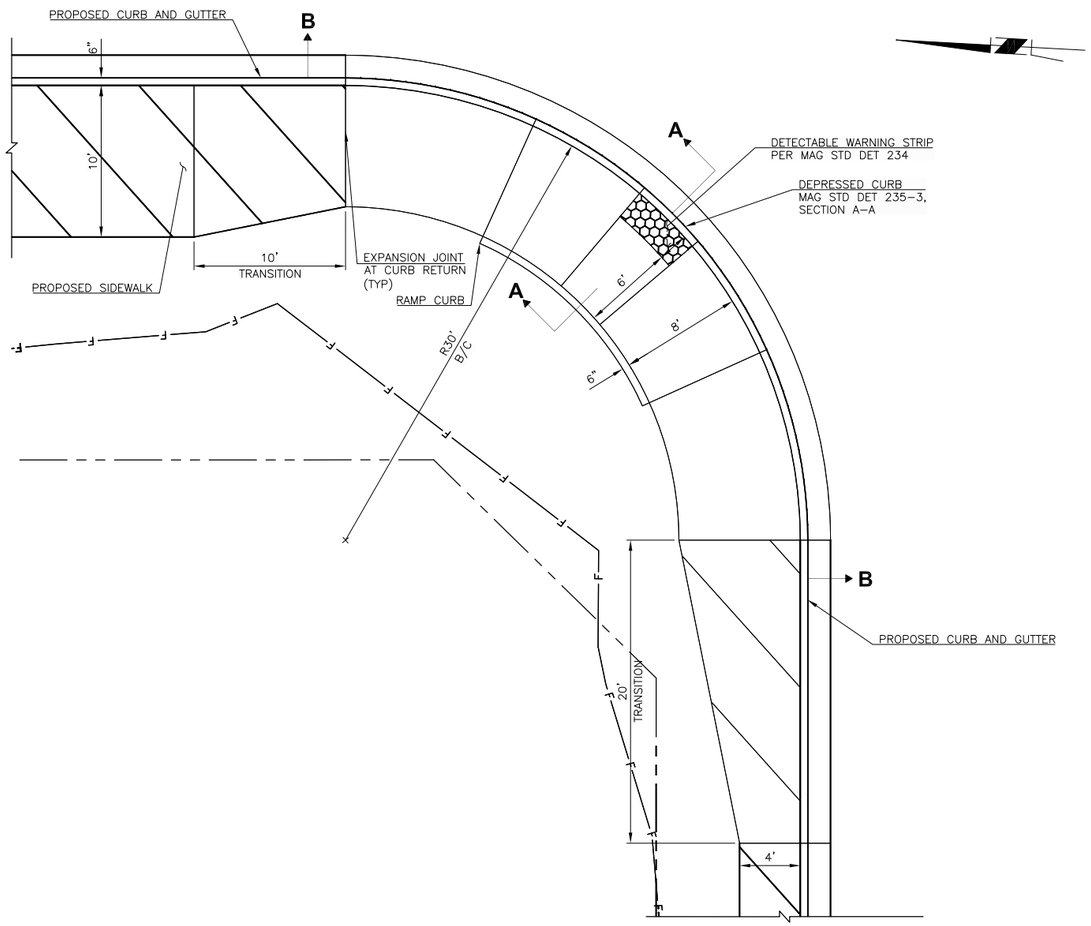
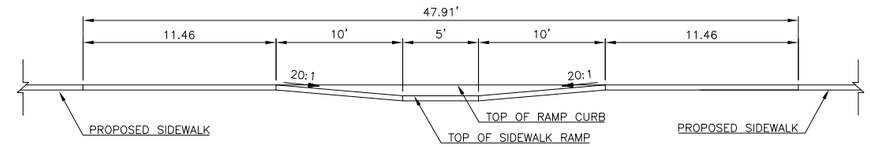
9	AZ	62952173 & 662170001			



OMEGA DRIVE NORTH SIDEWALK RAMP DETAIL

SEE SHEET 57

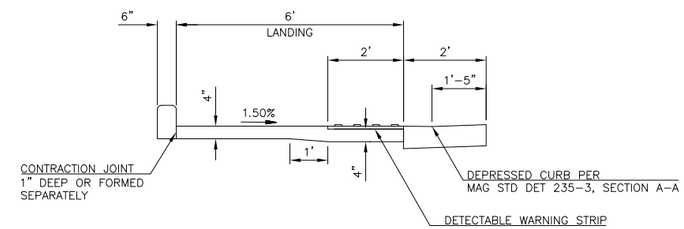
SCALE: 1"=5' H
1"=5' V



OMEGA DRIVE NORTH SIDEWALK RAMP SECTION B-B

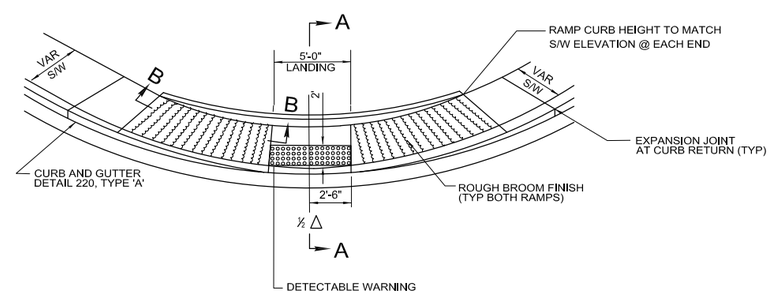
SCALE: 1"=5' H
1"=5' V

NOTE: DIMENSIONS TO BACK OF CURB



SECTION A-A

SCALE: 1"=2' H
1"=2' V



ISOMETRIC VIEW

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DRAWN	DR	9/15
CHECKED	CSS	9/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

DETAIL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 6/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Q:\221807.00 Hunt Highway Phase 3\Cad\Deliv Files\Details\6621173_17-30_Detail_Sidewalk_Ramps.dwg 9/1/2015 9:37:17 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

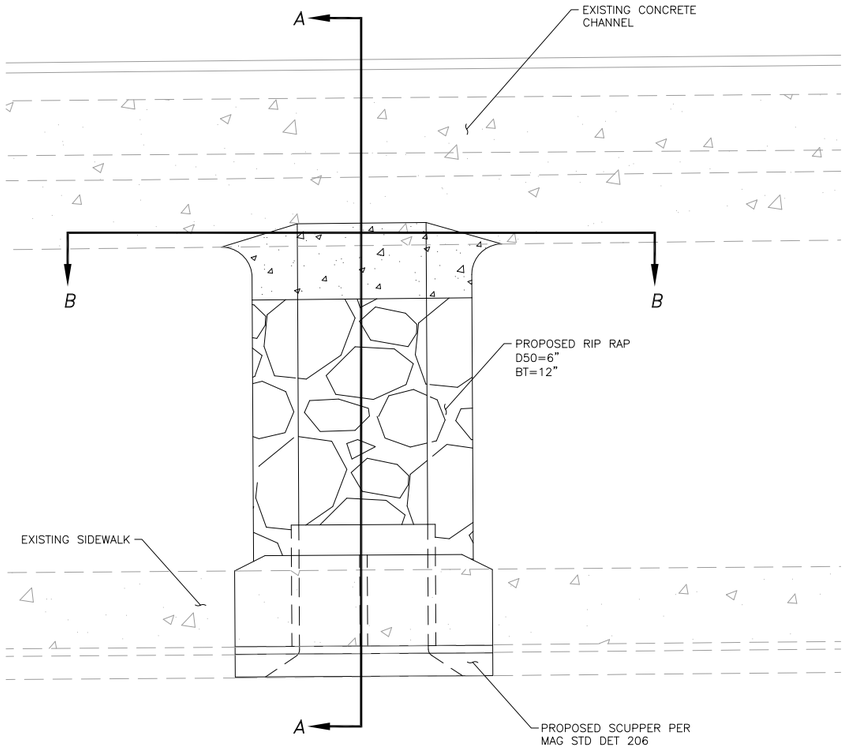
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

GENERAL NOTES:

1. ALL PORTIONS OF SPILLWAY TO BE TROWEL FINISHED.

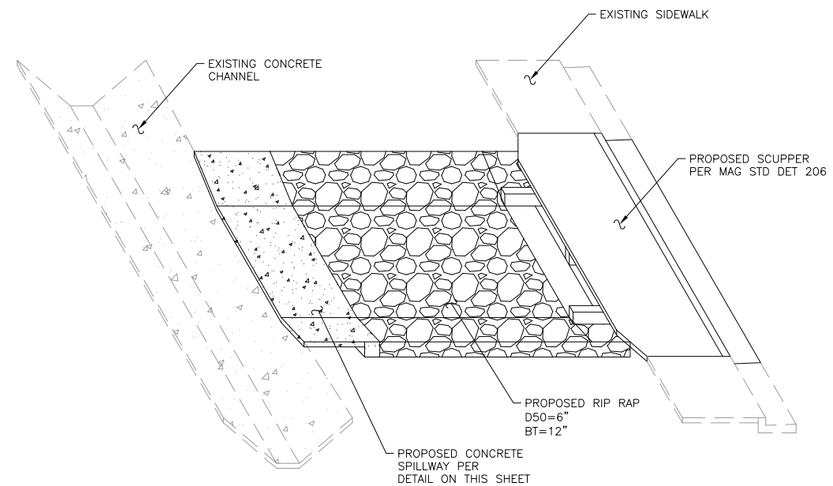
2. CONCRETE FOR THE SPILLWAY SHALL BE CLASS 'B' PER MAG SECTION 725.

3. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION WORK.



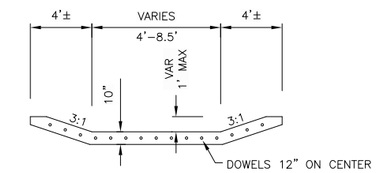
PLAN VIEW

SCALE: 1"=5'



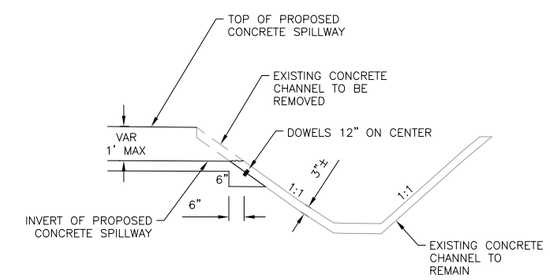
ISOMETRIC VIEW

SCALE: 1"=5'



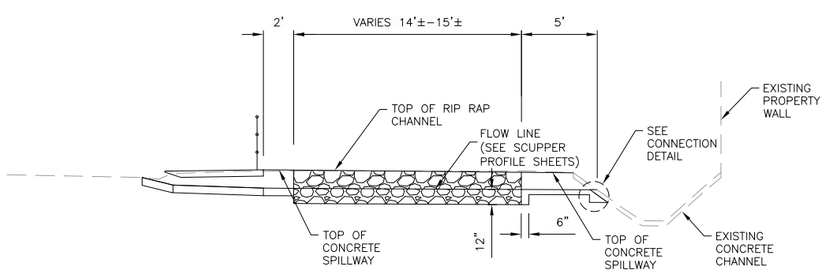
CONCRETE SPILLWAY AT CONNECTION

NTS



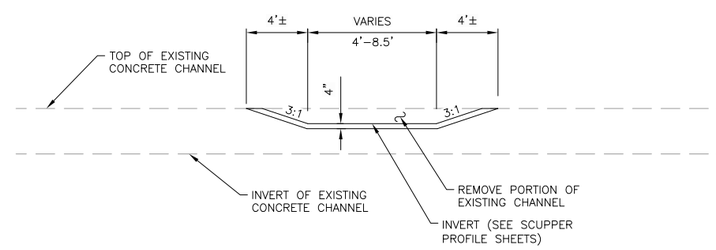
CONNECTION DETAIL

NTS



SECTION A-A

SCALE: 1"=5'



SECTION B-B

SCALE: 1"=5'

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	APPR	DATE

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DRAWN	DR	8/15
CHECKED	CSS	8/15

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ENGINEERING BRANCH
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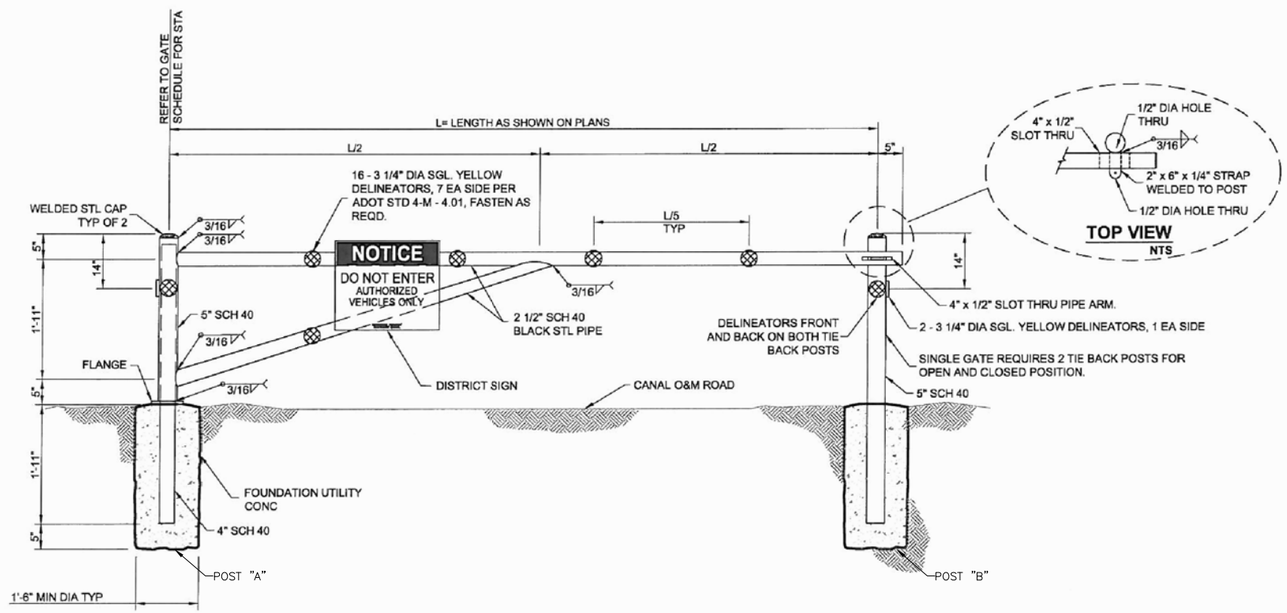
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Details\2170001_31_PH1_Details_Scupper.dwg 8/27/2015 10:26:51 AM Carlos Sanchez-Soria TY Lin Half Scale.ctb



NOTES:

1. CENTERLINE OF STEEL POSTS ARE 1' BEYOND EDGE OF SHOULDER.
2. PAINT GATE AND POSTS AS SPECIFIED OR APPROVED BY THE ENGINEER.
3. SET GATE 30' OFFSET FROM TRAFFIC ACCESS OR ROADWAY TURNOUT OR AS APPROVED BY THE ENGINEER.
4. REFER TO PLANS FOR GATE INSTALLATION LOCATION.
5. FILL BOTH BOLLARDS WITH CONCRETE.

	POST "A"		POST "B"	
GATE	STA	CL OFFSET	STA	CL OFFSET
#1	323+94.41	87.8'	323+92.57	71.9'
#2	325+38.76	111.4'	325+49.23	99.3'
#3	326+04.17	87.3'	326+14.63	75.2'

STEEL PIPE CANAL BAR SWING GATE

GCE Standard Detail

304

REUSE OF DOCUMENT: THESE PLANS & SPECIFICATIONS, AND THE IDEAS & DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF GCE, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION AND CONSENT OF GCE, INC.

GEORGE CAIRO ENGINEERING, INC.

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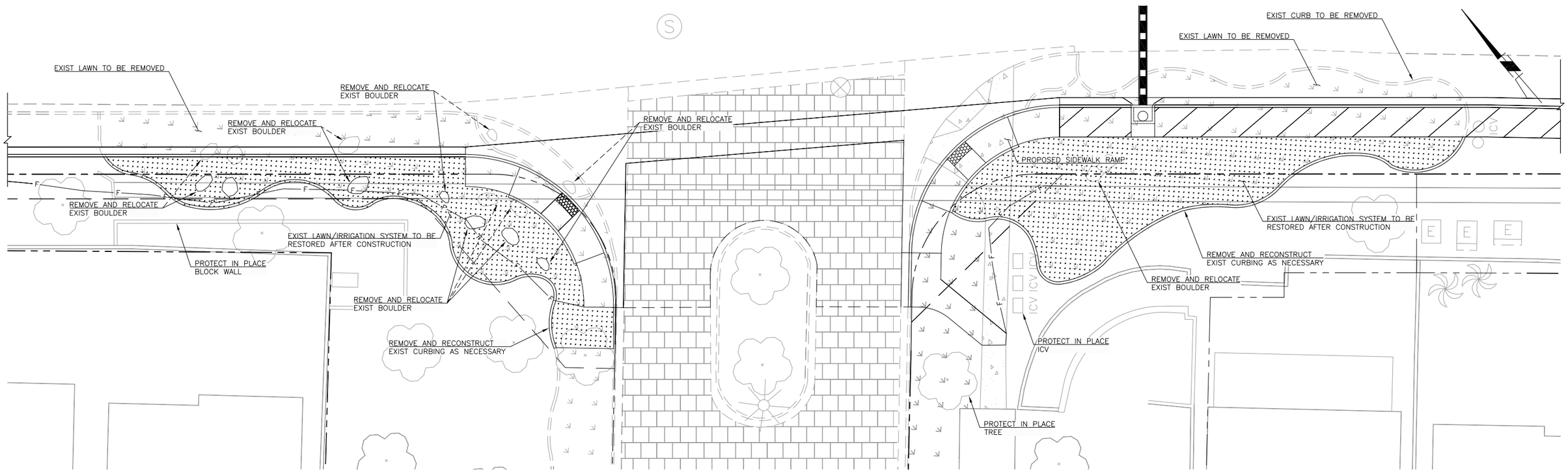
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



TUMBLING RIVER ROAD

SEE SHEETS 49&50

SCALE: 1"=10' H

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

LANDSCAPE DETAIL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 33 OF 176

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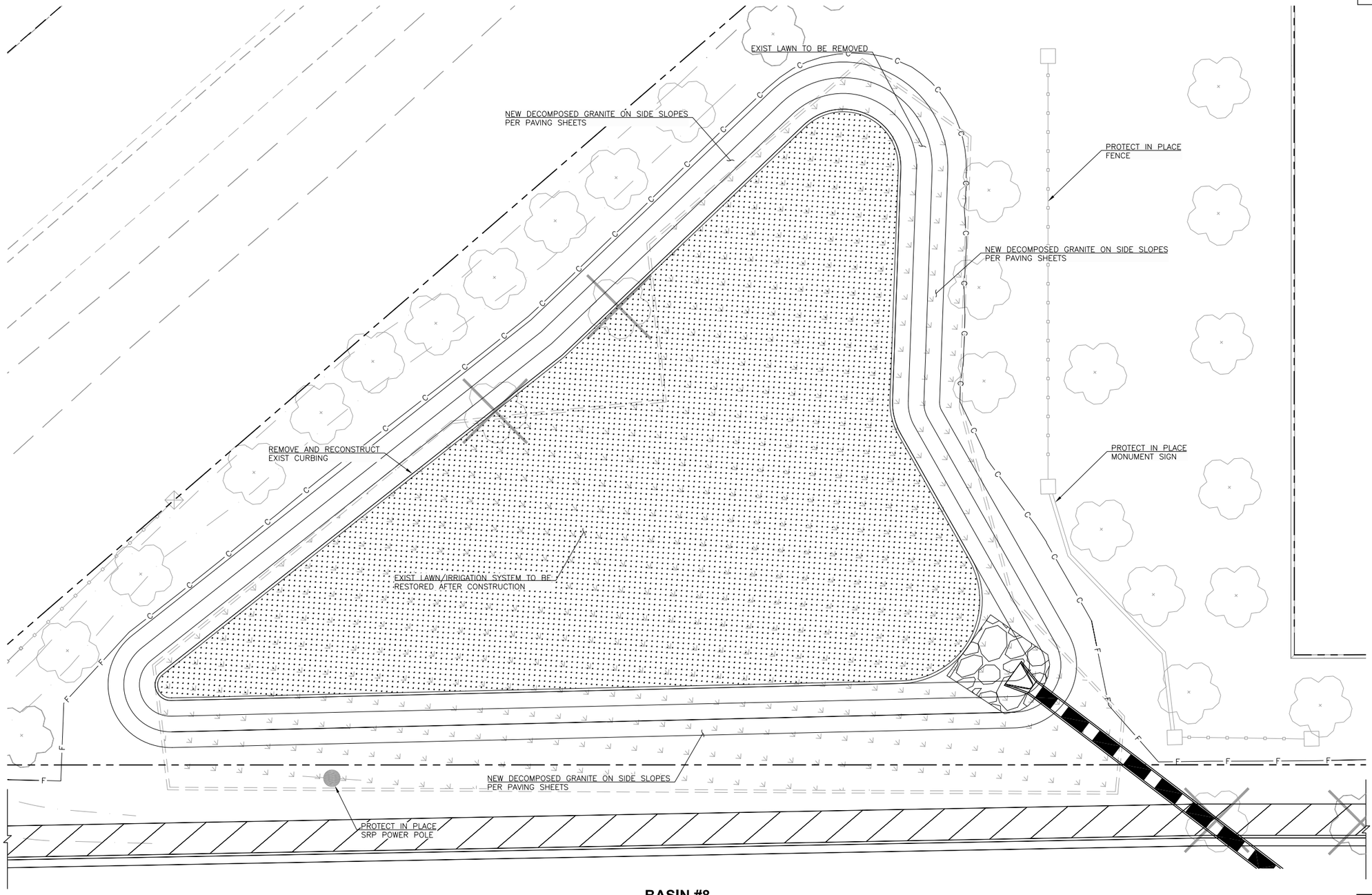
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BASIN #8

SEE SHEET 49

SCALE: 1"=10' H

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

LANDSCAPE DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 3/30/17

8/27/2015 10:47:32 AM Carlos Sanchez-Soria TY Lin Half Scale.ctb

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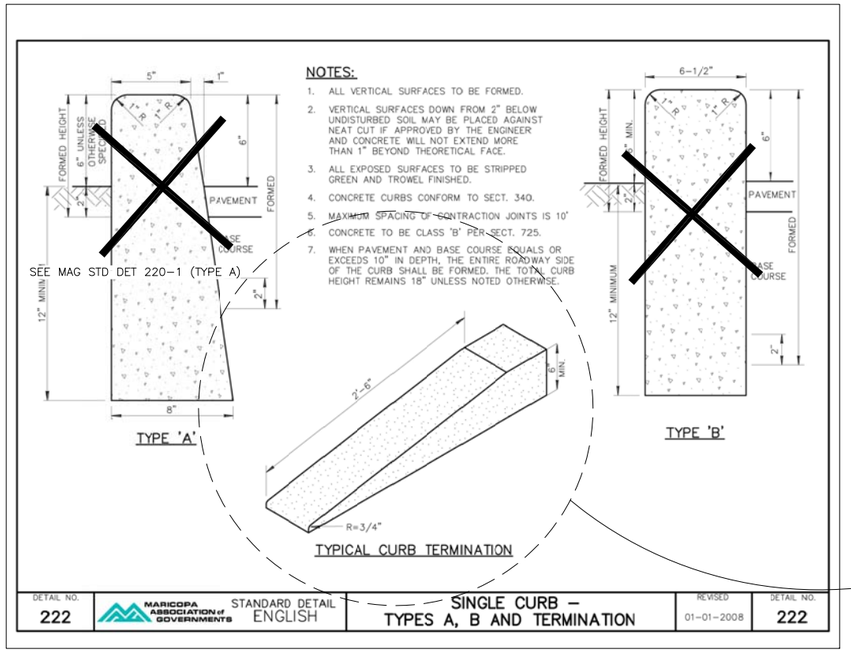
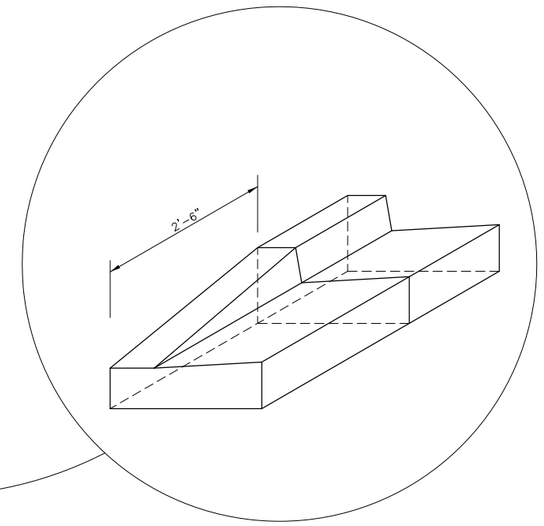
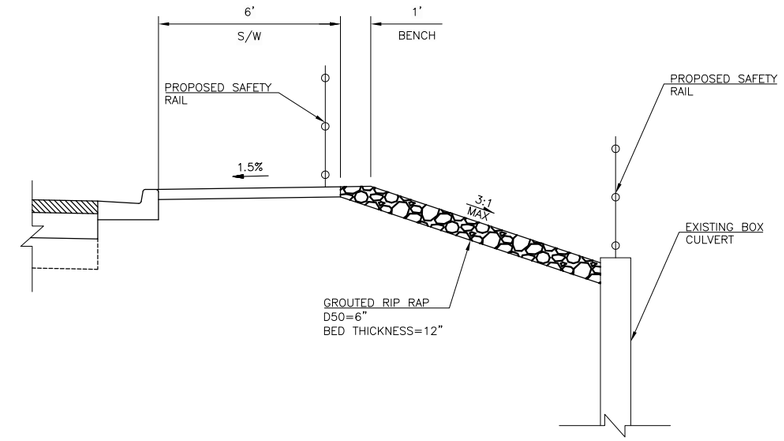
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



MODIFIED MAG STD DET 222

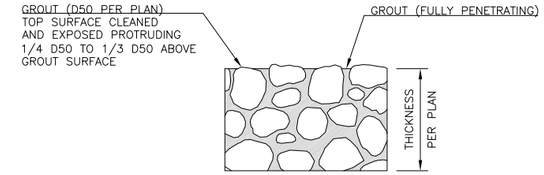
FOR CURB AND GUTTER





GROUTED RIP RAP DETAIL

NO SCALE



NOTES

1) RIP RAP SHALL BE ANGULAR WITH A MINIMUM SPECIFIC GRAVITY OF 2.656.

2) PROVIDE COLOR ADMIXTURE TO GROUT TO MATCH SURROUNDING EARTH TONE.

GROUT DETAIL

NO SCALE

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Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

NO.	REVISION	BY	APPR	DATE

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DESIGN	DF	9/15
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ENGINEERING BRANCH
DESIGN SECTION

DETAIL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/2/15 ARIZONA, U.S.A. Expires 6/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 34 OF 176

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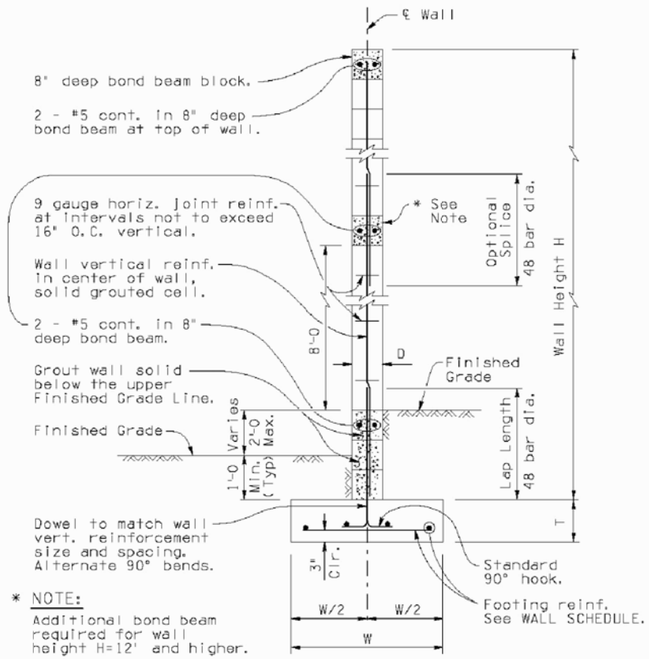
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	2170001			

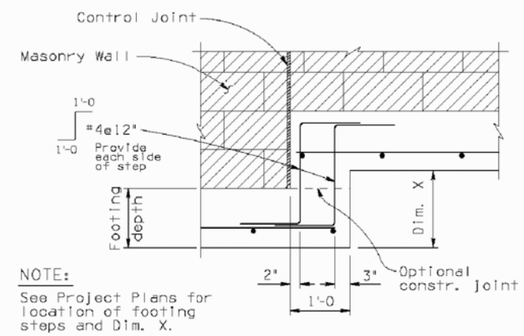


* NOTE:

Additional bond beam required for wall height H=12' and higher.

TYPICAL WALL SECTION

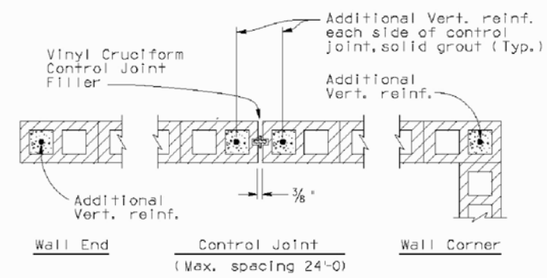
(For Wall Height 0'-0 to 17'-11)



NOTE:

See Project Plans for location of footing steps and Dim. X.

FOOTING STEP DETAIL



WALL DETAILS AT JOINTS AND ENDS

NOTE:

See DWG. SD 8.02 (2 of 2) "TYPICAL SECTIONS THROUGH VERTICAL WALL REINFORCEMENT" for similar details not shown here.

GENERAL NOTES:

Construction Specification - Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest Edition. ACI 530.1, Specifications for Masonry Structures.

Design Specifications - AASHTO LRFD Bridge Design Specifications, 4th Edition 2007.

Wind Velocity 80 MPH, Exposure C.
Wind pressure 18.0 psf for wall height under 12'-0.
Wind pressure 25.0 psf for wall height over 12'-0.

Special Inspection is required for all masonry wall construction. Vertical Cells containing reinforcements shall be grouted solid full height. Bond Beams with reinforcements shall be grouted solid full length.

All Concrete shall be Class "S" (f'c = 3,000 psi).

Reinforcing steel shall conform to ASTM Specification A615. All reinforcing shall be furnished as Grade 60 (fy = 60,000 psi).

All bends and hooks shall meet the requirements of AASHTO LRFD Article 5.10. All bend dimensions for reinforcing steel shall be out-to-out of bars. All placement dimensions for reinforcing steel shall be to center of bars unless noted otherwise.

All reinforcing steel shall have 2 inch clear cover unless noted otherwise.

Compact backfill for footing and wall base minimum 95 percent of ASTM D698 maximum dry density.

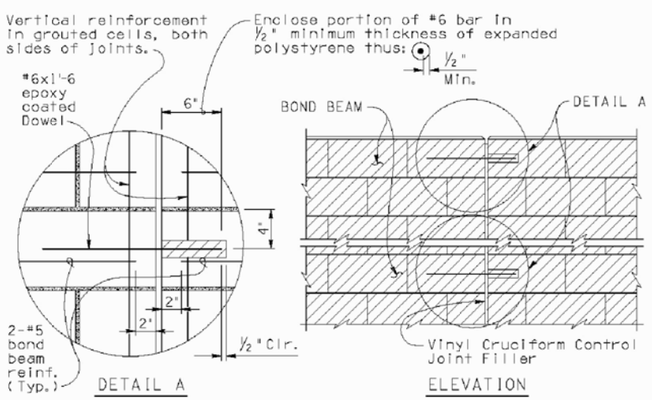
See Project Plans for wall layout, top of footing and finished grade elevations, footing step and wall joint locations. Height of wall may vary ± 2 inches. Control joints shall occur at intervals not to exceed 24'-0. See Project Plans for wall surface treatment and type of block.

Pay item is measured as wall height H times length of wall, and pay item includes all labor and materials for excavation, backfill, concrete footing and masonry wall with reinforcements.

Dimensions shall not be scaled from drawings.

Item No. 9140137 SOUND BARRIER WALL (MASONRY)
Measure: Square Foot

(GENERAL NOTES Continued Next Sheet)



TYPICAL BOND BEAM DETAIL AT CONTROL JOINT

(For bond beams above the upper Finished Grade Line)

WALL SCHEDULE

Wall Height H	Wall Thick D**	Ftg. Depth T	Ftg. Width W	Reinforcing*** Wall Vert.	Reinforcing*** Footing Bottom Trans.	Reinforcing*** Footing Bottom Long.	Factored Average Soil Bearing Pressure (psf)
0'-0 to 3'-11	8"	10"	1'-6	#4@24"	#4@24"	2-#4	1,000
4'-0 to 5'-11	8"	10"	2'-0	#4@24"	#4@24"	2-#4	1,200
6'-0 to 7'-11	8"	10"	2'-6	#5@24"	#5@24"	4-#4	1,300
8'-0 to 9'-11	8"	10"	3'-0	#5@24"	#5@16"	4-#4	1,400
10'-0 to 11'-11	8"	1'-0	3'-6	#5@16"	#5@16"	4-#5	1,500
12'-0 to 13'-11	12"	1'-3	4'-6	#5@16"	#5@16"	6-#5	1,600
14'-0 to 15'-11	12"	1'-6	5'-0	#6@16"	#6@16"	6-#5	1,700
16'-0 to 17'-11	12"	1'-6	5'-6	#8@16"	#6@16"	6-#5	1,800

** Nominal Dimension, *** Additional Reinf. required at Control Joints.

Note to Designer:
The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	Original Issue	S.Gulk	10-99
2	Clarify Joint Detail	S.Gulk	11-05
3	Editorial Revisions, General Update	S.Gulk	01-09
4	Revise Notes, General Update	S.Gulk	4-10
5	Revise Notes, General Update	S.Gulk	4-12

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION BRIDGE GROUP STRUCTURE DETAIL
APPROVED FOR DISTRIBUTION	SOUND BARRIER WALL (MASONRY)
ROUTE / PROJECT NO. / FA NO. / LOCATION	DRAWING NO. SD 8.02 (1 of 2) / SHEET NO. OF

4/6/2010 V:\Bridge\Dev\english\sd\sd802-1.2410.dgn

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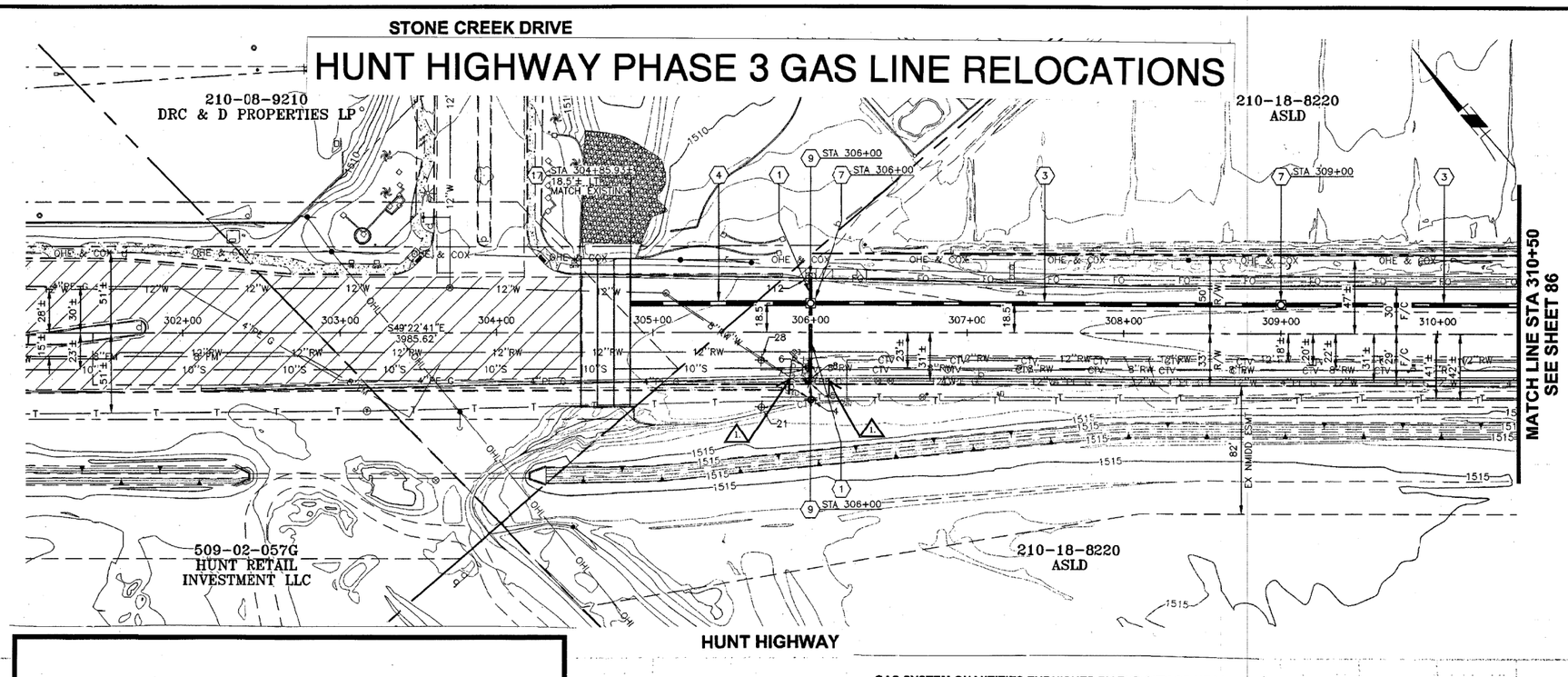
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	52952173 & 662170001			

HUNT HIGHWAY PHASE 3 GAS LINE RELOCATIONS



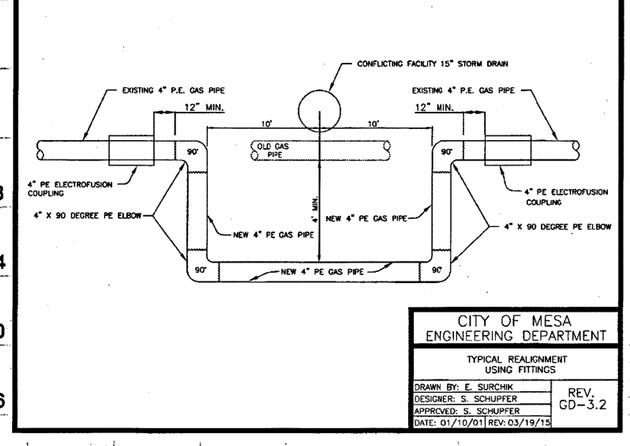
STORM DRAIN CONSTRUCTION NOTES

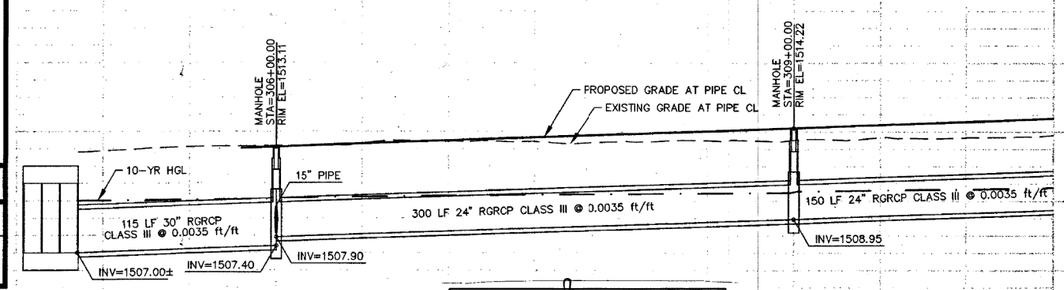
1	FURNISH AND INSTALL 15" RGRCP, CLASS III	56 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	450 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	115 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	2 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
17	CONNECT PROPOSED STORM DRAIN PIPE TO EXISTING BOX CULVERT PER DETAILS ON SHEET 110.	1 EA

THIS SHEET FOR 4" GAS RELOCATE ONLY

GAS DESIGN AND CONSTRUCTION NOTES BY C.O.M.

1. VERTICALLY DEFLECT 4" P.E. GAS PIPE, PER REVISED DETAIL GD-3.2 AND GAS LINE RELOCATION TABLE ON SHEET 1, (TOTAL 1 EACH THIS SHEET).





GAS SYSTEM QUANTITIES FURNISHED BY THE CITY OF MESA

NO.	MATERIAL DESCRIPTION	QTY	ACTUAL	UNIT	STOCK #
1	WIRE, TRACER	308		LF	28560-446
2	4" PE GAS PIPE	308		LF	65858-740
3	4" X 90 DEGREE ELBOW	44		EA	65941-736
4	4" ELECTROFUSION COUPLING	22		EA	65941-736

GAS LINE RELOCATE HUNT HWY FROM STONE CREEK DRIVE TO BELLA VISTA ROAD

ITEM	LOCATION: CONFLICT OF PROP. S.D WITH GAS	LOCATION OF 4" X 90 DEGREE ELBOWS	LENGTH OF DROP	DEPTH OF DROP	POT HOLE #	RELOCATE	4" P.E.
1	306+00 (32' RT)	305+88 , 306+08 (31.5' RT)	20'	4'	5	X	28 LF
2	312+00 (32' RT)	311+88, 312+08 (31' RT)	20'	4'	13	X	28 LF
3	318+00 (32' RT)	317+88, 318+08 (31' RT)	20'	4'	15	X	28 LF
4	323+00 (32' RT)	323+70, 323-90 (28.5' RT)	20'	4'	26	X	28 LF
5	330+65 (32' RT)	330+56, 330+75 (30' RT)	20'	4'	31	X	28 LF
6	336+50 (32' RT)	336+40, 336+60 (31 RT)	20'	4'	36	X	28 LF
7	339+00 (32' RT)	338+88, 339+08 (31' RT)	20'	4'	41	X	28 LF
8	343+00 (30' RT)	342+88 (30' RT) 343+08 (30' RT)	20'	4'	46	X	28 LF
9	347+00 (25' RT)	346+88 (25' RT) 347+08 (25' RT)	20'	4'	50	X	28 LF
10	355+00 (30' RT)	354+88 (30' RT) 355+08 (30' RT)	20'	4'	63	X	28 LF
11	358+70 (30' RT)	358+60 (30' RT)358+80 (30' RT)	20'	4'	67	X	28 LF

THIS SEAL ONLY COVERS THE NATURAL GAS SYSTEM DESIGN AS PREPARED BY THE CITY OF MESA

Scott Schupfer
SCOTT A. SCHUPFER
35211
SCOTT A. SCHUPFER
9-3
ARIZONA, U.S.A.
EXPIRES 9/30/2018

A-181788

POTHOLE NUMBER
(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'
VERT: 1" = 4'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GAS LINE RELOCATIONS

LOCATION: HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

40279 CARLOS SANCHEZ SORIA ARIZONA, U.S.A. Expires 6/30/17

SHEET 36 OF 176

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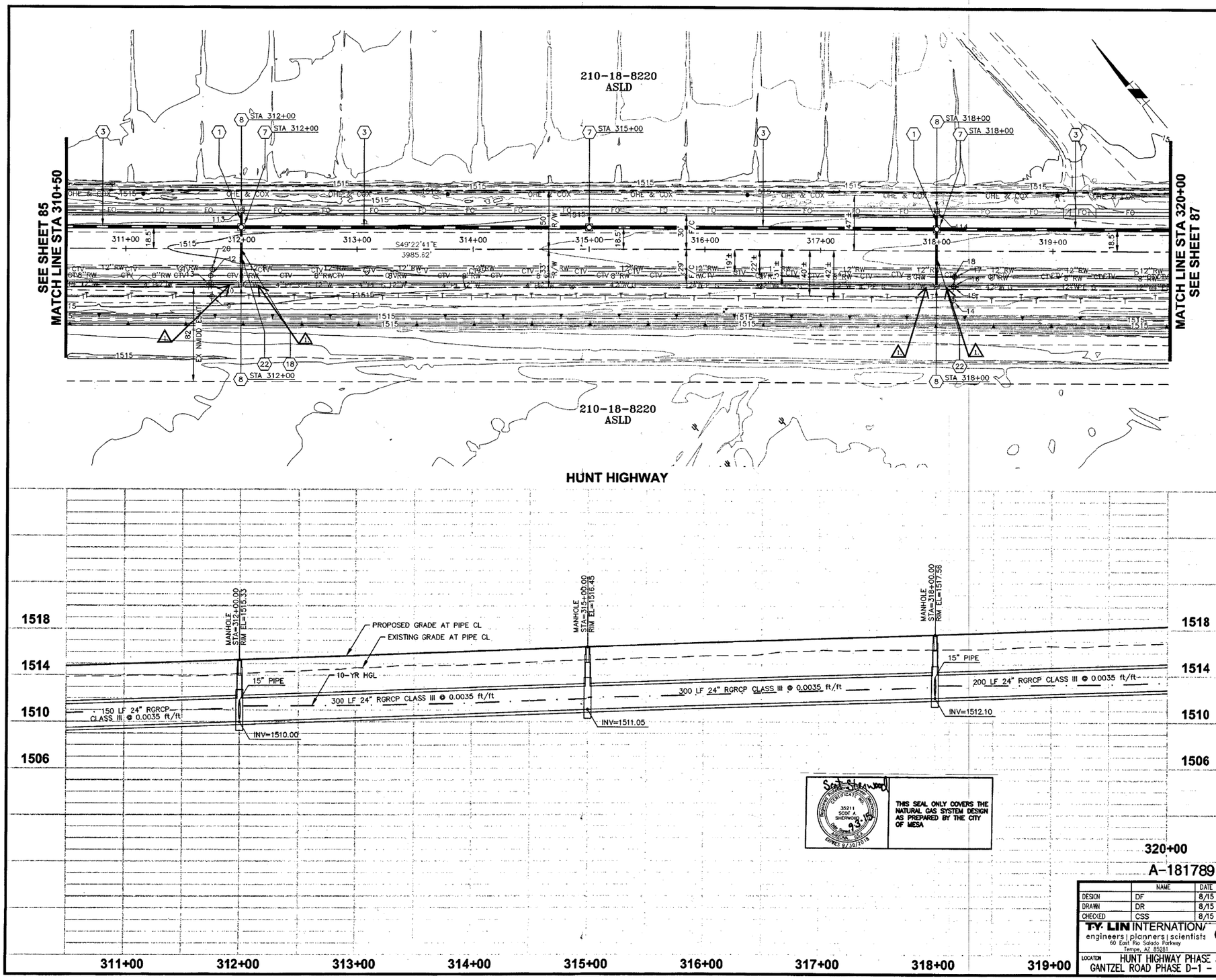
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



THIS SEAL ONLY COVERS THE NATURAL GAS SYSTEM DESIGN AS PREPARED BY THE CITY OF MESA

STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	36.5 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	950 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	4 EA
18	CONSTRUCT CONCRETE COLLAR PER MAG STD DET 505	1 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	75.5 LF

THIS SHEET FOR 4" GAS RELOCATE ONLY

GAS DESIGN AND CONSTRUCTION NOTES BY C.O.M.

1. VERTICALLY DEFLECT 4" P.E. GAS PIPE, PER REVISED DETAIL GD-3.2 AND GAS LINE RELOCATION TABLE ON SHEET 1, (TOTAL 2 EACH THIS SHEET).

POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

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40 0 40 80 120
SCALE: 1" = 40'
VERT: 1" = 4'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

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Tempe, AZ 85281

GAS LINE RELOCATIONS

LOCATION: HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

CERTIFICATE NO. 35279 CARLOS SANCHEZ SORIA ARIZONA, U.S.A. Date Signed 8/27/15 Expires 9/30/17

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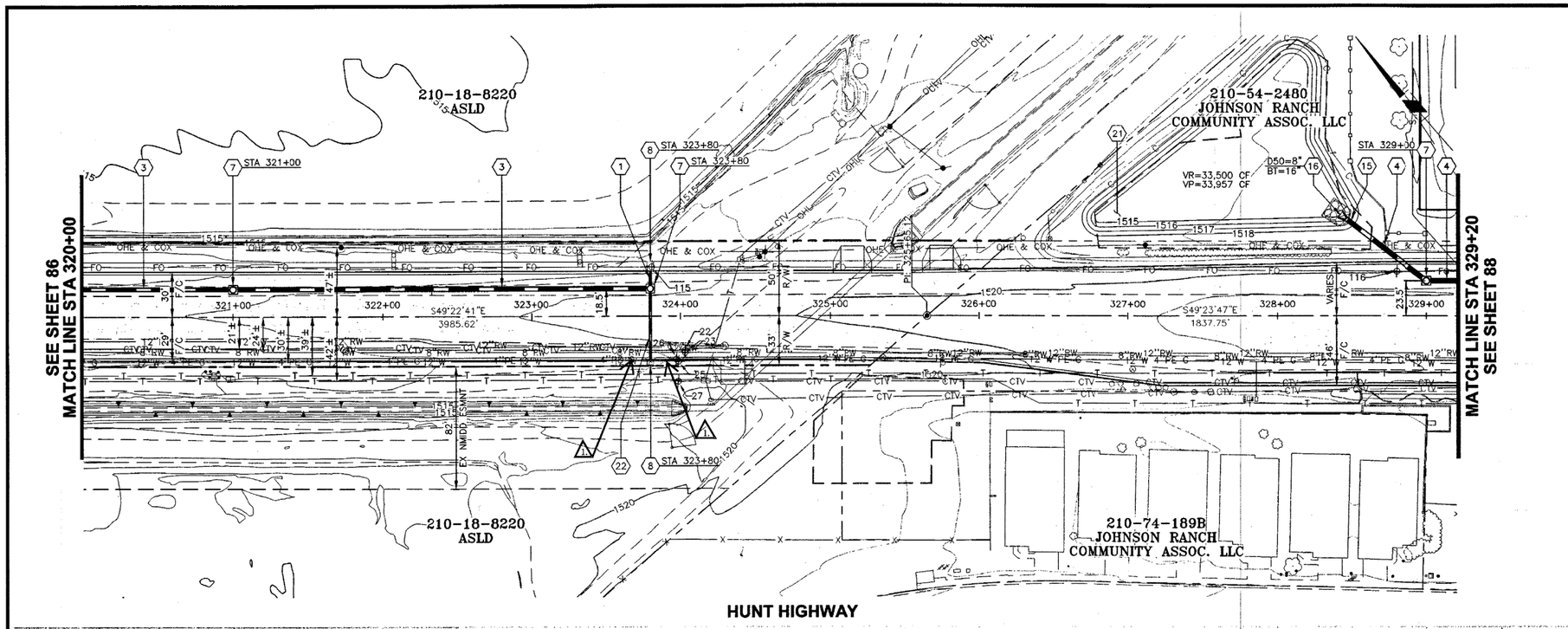

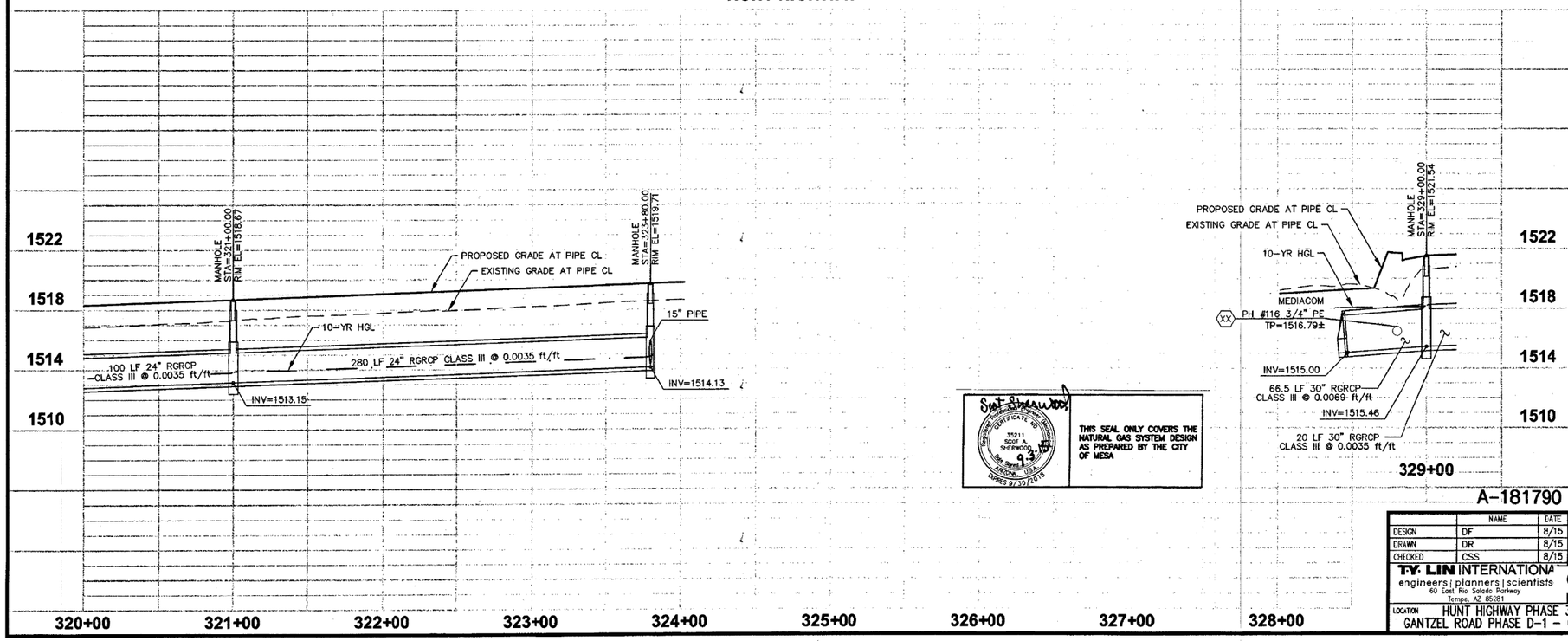

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	10 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	380 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	86.5 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	2 EA
15	FURNISH & INSTALL CONCRETE END SECTION PER MAG STD DET 545	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	12 TON
21	RETENTION BASIN PER DETAIL ON SHEET 81	
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	46 LF

THIS SHEET FOR 4" GAS RELOCATE ONLY

GAS DESIGN AND CONSTRUCTION NOTES BY C.O.M.

1. VERTICALLY DEFLECT 4" P.E. GAS PIPE, PER REVISED DETAIL GD-3.2 AND GAS LINE RELOCATION TABLE ON CURRENT SHEET (TOTAL 1 EACH THIS SHEET).

POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

NOTE: FOR RETENTION BASIN DETAIL SEE SHEETS 94-98

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ARIZONA 811
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in Maricopa County: (602) 263-1100

SCALE: 1" = 40'
VERT: 1" = 4'

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A-181790

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
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DRAWN	DR	8/15
CHECKED	CSS	8/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GAS LINE RELOCATIONS

LOCATION: HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

38279 CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
EXPIRES 6/30/2017

SHEET 38 OF 176

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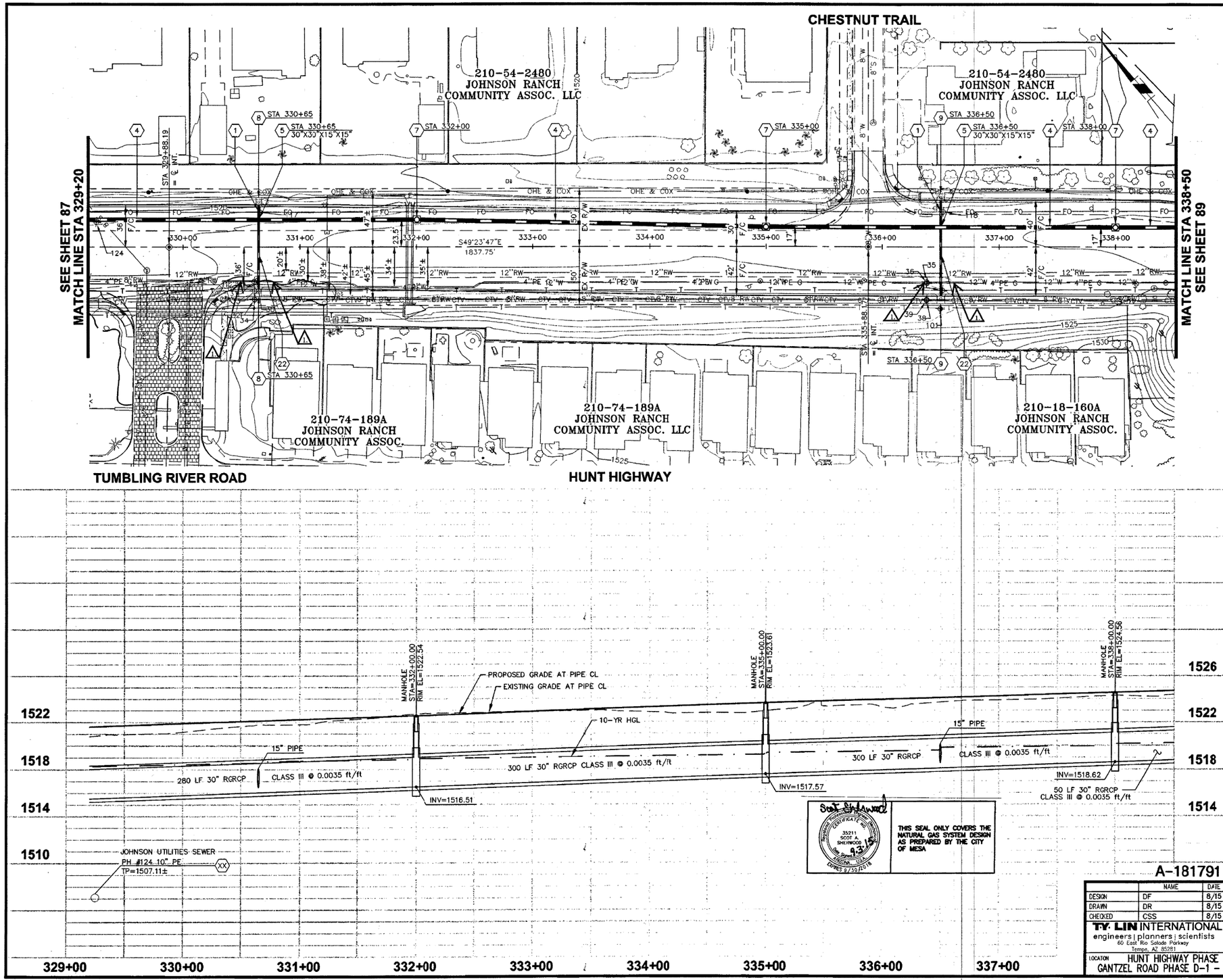

THIS SEAL ONLY COVERS THE NATURAL GAS SYSTEM DESIGN AS PREPARED BY THE CITY OF MESA

A-181791

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	33.5 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	930 LF
5	FURNISH AND INSTALL PREFABRICATED CROSS, SIZE PER PLAN	2 EA
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	2 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	117 LF

THIS SHEET FOR 4" GAS RELOCATE ONLY

GAS DESIGN AND CONSTRUCTION NOTES BY C.O.M.

1. VERTICALLY DEFLECT 4" P.E. GAS PIPE, PER REVISED DETAIL GD-3.2 AND GAS LINE RELOCATION TABLE ON SHEET 1, (TOTAL 2 EACH THIS SHEET).

POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

40 0 40 80 120

SCALE: 1" = 40'
VERT: 1" = 4'

NO.	REVISION	BY	APPR	DATE

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GAS LINE RELOCATIONS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

48279 CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

SHEET 39 OF 176

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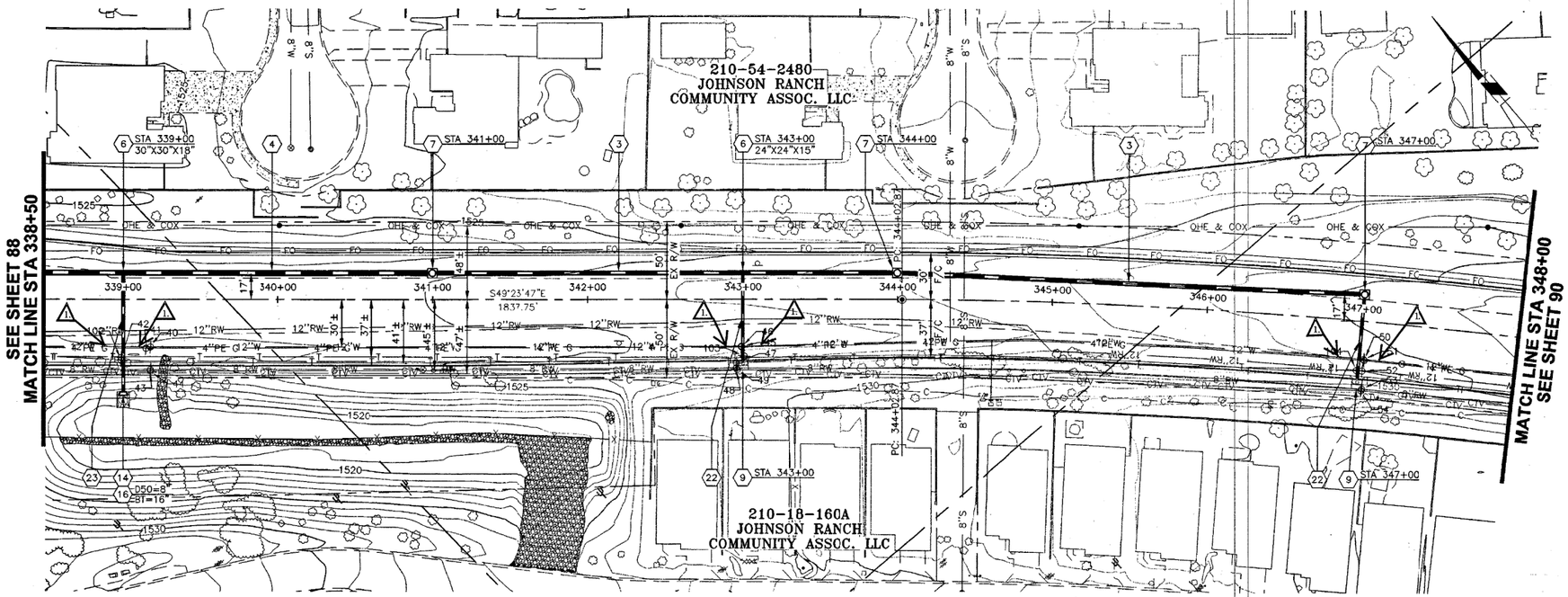
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



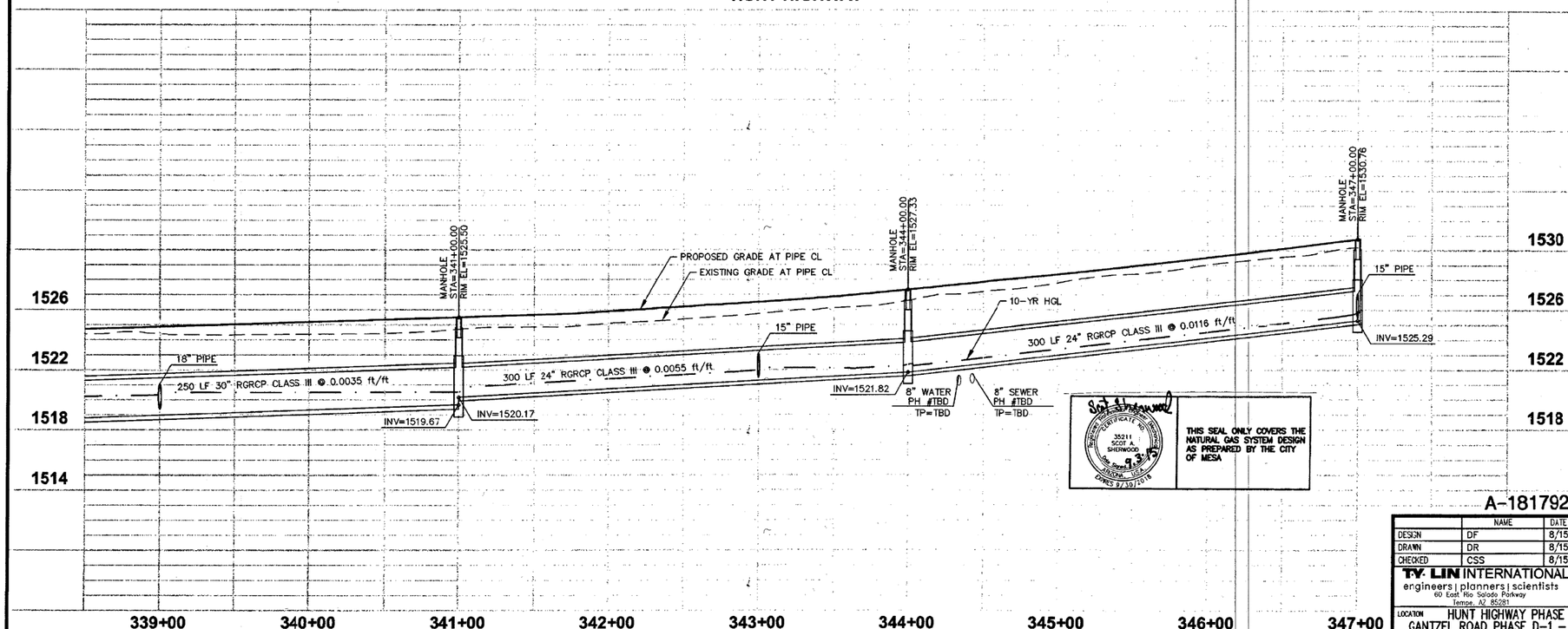
STORM DRAIN CONSTRUCTION NOTES

2	FURNISH AND INSTALL 18" RGRCP, CLASS III	78 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	600 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	250 LF
6	FURNISH AND INSTALL PREFABRICATED TEE, SIZE PER PLAN	2 EA
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
14	CONSTRUCT CONCRETE HEADWALL ('U' TYPE) MAG STD DET 501-1 & 501-2	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	5 TON
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	111.5 LF
23	FURNISH AND INSTALL 18" RGRCP, CLASS V	76.5 LF

THIS SHEET FOR 4" GAS RELOCATE ONLY

GAS DESIGN AND CONSTRUCTION NOTES BY C.O.M.

1. VERTICALLY DEFLECT 4" P.E. GAS PIPE, PER REVISED DETAIL GD-3.2 AND GAS LINE RELOCATION TABLE ON SHEET 1, (TOTAL 3 EACH THIS SHEET).



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A-181792

POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

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SCALE: 1" = 40'
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Tempe, AZ 85281

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GAS LINE RELOCATIONS

CERTIFICATE NO. 35279 CARLOS SANCHEZ SORIA ARIZONA, U.S.A. Date Signed 8/27/15 Expires 6/30/17

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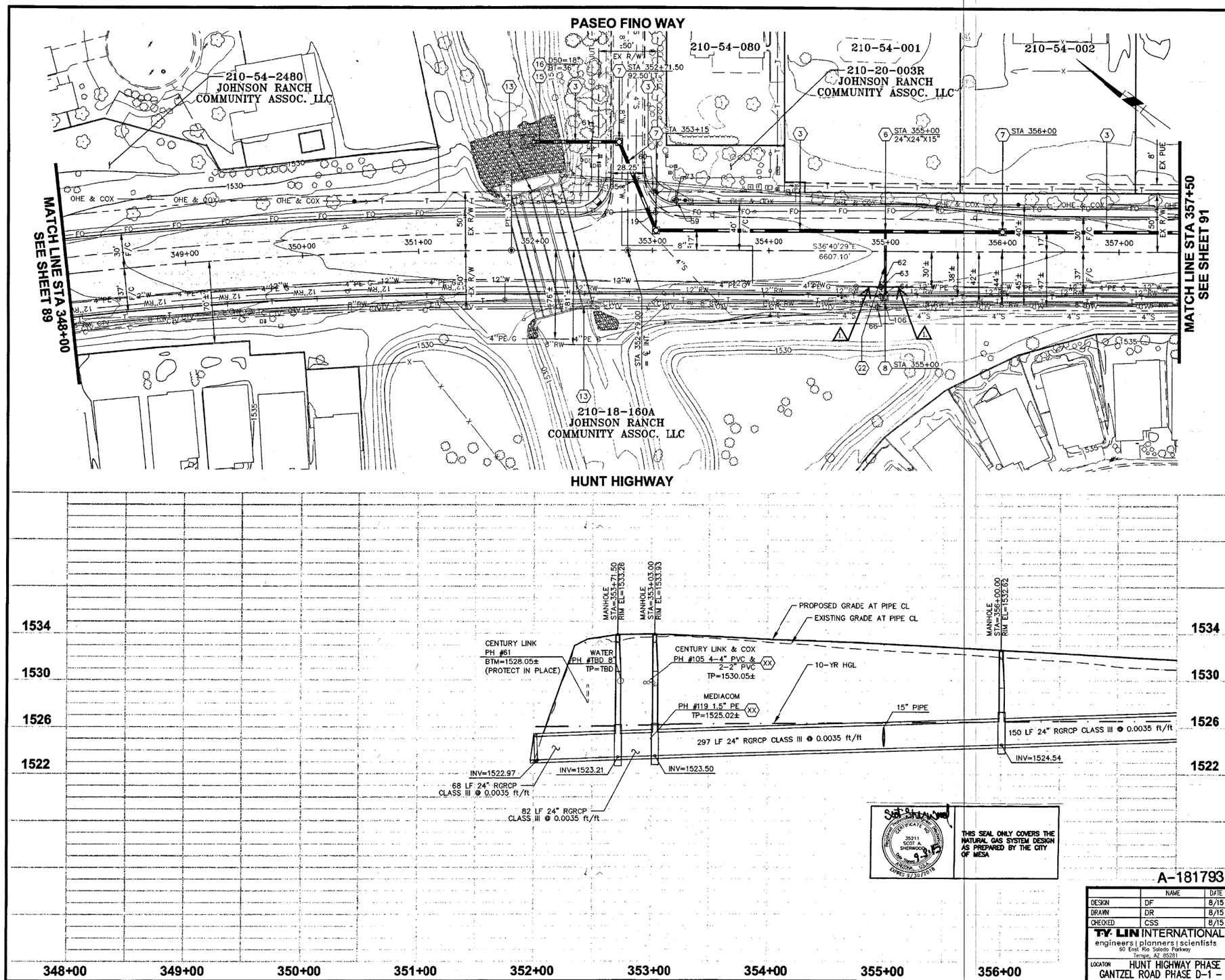

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

STORM DRAIN CONSTRUCTION NOTES

3	FURNISH AND INSTALL 24" RGRCP, CLASS III	597 LF
6	FURNISH AND INSTALL PREFABRICATED TEE, SIZE PER PLAN	1 EA
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	1 EA
13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206-2.	141 LF
15	FURNISH & INSTALL CONCRETE END SECTION PER MAG STD DET 545	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	25 TON
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	54 LF

THIS SHEET FOR 4" GAS RELOCATE ONLY

GAS DESIGN AND CONSTRUCTION NOTES BY C.O.M.

1. VERTICALLY DEFLECT 4" P.E. GAS PIPE, PER REVISED DETAIL GD-3.2 AND GAS LINE RELOCATION TABLE ON CURRENT SHEET (TOTAL 1 EACH THIS SHEET).

POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

Call at least two full working days before you begin excavation.
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A-181793

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GAS LINE RELOCATIONS

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 41 OF 176

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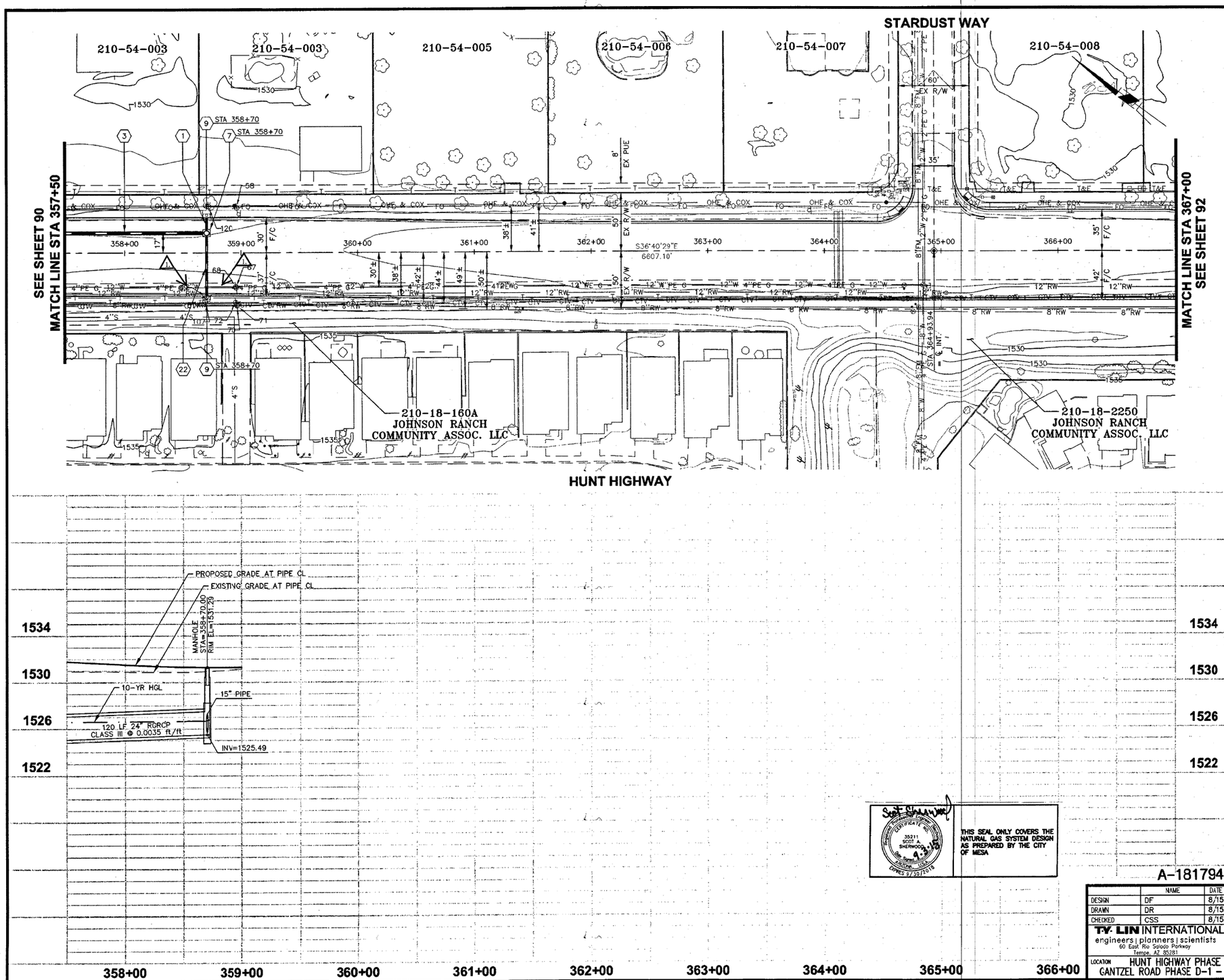
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	11.5 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	120 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	1 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	52.5 LF

THIS SHEET FOR 4" GAS RELOCATE ONLY

GAS DESIGN AND CONSTRUCTION NOTES BY C.O.M.

1. VERTICALLY DEFLECT 4" P.E. GAS PIPE, PER REVISED DETAIL GD-3.2 AND GAS LINE RELOCATION TABLE ON SHEET 1, (TOTAL 1 EACH THIS SHEET).

POTHOLE NUMBER

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A-181794

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

GAS LINE RELOCATIONS

LOCATION: HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

CARLOS SANCHEZ SORIA
46279
ARIZONA, U.S.A.
Expires 3/30/17

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

APPROXIMATE ROADWAY QUANTITIES

BID ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY / PLAN SHEET NUMBERS												
			45	46	47 / 85	48 / 86	49 / 87	50 / 88	51 / 89	52 / 90	53 / 91	54 / 92	55 / 93	56	TOTAL
8	GROUTED RIPRAP	CY	-	-	-	-	-	-	-	850	-	-	-	-	850
9	DUMPED RIPRAP, D50=8", BED THICKNESS 16"	Ton	-	-	-	-	12	-	5	-	-	18	-	-	35
10	DUMPED RIPRAP, D50=18", BED THICKNESS 36"	Ton	-	-	-	-	-	-	-	25	-	-	-	-	25
11	SUBGRADE PREPARATION	SY	-	-	3,914	5,912	6,191	7,855	7,026	7,313	7,289	5,335	988	-	51,823
12	TRIAX GEOGRID REINFORCEMENT (TX-5)	SY	-	-	3,914	5,912	6,191	7,855	7,026	7,313	7,289	5,335	988	-	51,823
13	AGGREGATE BASE COURSE, MAG 702, THICKNESS PER PLANS	Ton	-	-	1,527	2,305	2,415	3,063	2,740	2,852	2,843	2,081	385	-	20,211
14	ASPHALT CONCRETE PAVEMENT (3/4" MIX), THICKNESS PER PLANS	Ton	-	-	705	1,064	1,114	1,414	1,265	1,316	1,312	960	178	-	9,328
15	ASPHALT CONCRETE PAVEMENT (1/2" MIX), THICKNESS PER PLANS	Ton	-	-	352	532	557	707	632	658	656	480	89	-	4,663
16	ASPHALT CONCRETE PAVEMENT (RUBBERIZED), THICKNESS PER PLANS	Ton	249	826	596	532	557	707	632	658	656	603	742	47	6,805
17	BITUMINOUS TACK COAT SS-1H, DILUTED	Ton	-	-	1.22	1.85	1.93	2.45	2.19	2.28	2.28	1.67	0.31	-	16.2
18	BITUMINOUS TACK COAT CSS-1H, DILUTED	Ton	0.86	2.87	2.07	1.85	1.93	2.45	2.19	2.28	2.28	2.09	2.58	0.16	23.6
20	VERTICAL CURB & GUTTER, MAG STD DET. 220, TYPE A, H = 6"	LF	-	-	1,420	1,881	1,792	1,870	1,886	1,902	1,966	1,574	486	-	14,777
21	ROLL CURB & GUTTER, MAG STD DET. 220, TYPE C	LF	-	-	-	-	-	27	-	5	-	-	-	-	32
22	SINGLE CURB PER MAG STD DET 222, TYPE A	LF	-	-	-	-	-	-	-	-	-	33	58	-	91
23	CONCRETE SIDEWALK PER MAG STD DET 230	SF	-	-	3,426	5,475	5,063	10,075	11,316	10,828	10,743	9,040	2,169	-	68,135
24	CONCRETE SIDEWALK RAMP PER DETAILS ON SHEET 17-30	SF	-	-	-	-	-	1,061	-	554	425	414	655	-	3,109
25	CONCRETE PAVERS PER STRUCTURAL SECTION ON TYPICAL SECTIONS	SF	-	-	-	-	-	1,441	-	-	-	-	-	-	1,441
28	CONCRETE APRON AND VALLEY GUTTER PER MAG STD DET. 240	SF	-	-	-	-	-	929	-	-	-	457	-	-	1,386
30	CONCRETE DRIVEWAY PER MAG STD DET 250-2	SF	-	-	252	252	-	-	-	-	-	-	518	-	1,022
31	CONCRETE DRIVEWAY PER MAG STD DET 262	SF	-	-	-	-	1,093	-	-	-	-	-	-	-	1,093
32	CONCRETE DRIVEWAY PER DETAIL ON SHEET 77	SF	-	-	-	-	-	-	-	-	-	-	1,352	-	1,352
33	3" AC DRIVEWAY CONNECTION ON COMPACTED NATIVE	SF	-	-	-	-	-	-	-	-	-	14	13	-	27
34	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A	EA	-	2	6	2	3	5	2	3	5	1	1	2	32
35	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422	EA	-	4	-	1	1	2	-	-	-	1	-	-	9
36	PAVEMENT MILLING	SY	2,762	9,174	2,702	-	-	-	-	-	-	1,361	7,259	524	23,782
37	REMOVAL OF EXISTING CONCRETE CURB	LF	-	-	371	-	752	632	-	164	172	24	-	-	2,115
38	REMOVAL OF EXISTING CONCRETE APRON AND VALLEY GUTTER	SF	-	-	-	-	-	917	-	-	-	-	-	-	917
39	REMOVAL OF EXISTING SIDEWALK	SF	-	-	-	-	-	364	-	-	-	-	-	-	364
40	REMOVAL OF EXISTING CONCRETE HEADWALL	EA	-	-	-	-	1	4	-	1	-	-	-	-	6
41	REMOVAL OF EXISTING STORM DRAIN PIPE	LF	-	-	-	-	44	606	-	322	131	-	-	-	1,103
42	REMOVAL OF EXISTING SIDEWALK RAMP	SF	-	-	-	-	-	171	-	-	-	-	146	-	317
45	REMOVAL OF EXISTING FENCE	LF	-	-	-	-	-	-	-	215	72	-	-	-	287
46	REMOVAL OF EXISTING TREES	EA	-	-	-	-	4	13	12	20	22	15	-	-	86
49	RELOCATE EXISTING IRRIGATION CONTROL VALVE	EA	-	-	-	-	-	1	1	1	1	-	-	-	4
50	REMOVAL OF EXISTING RIP RAP	SF	-	-	-	-	-	-	289	-	-	-	-	-	289
53	SURVEY MARKER, TYPE A PER MAG STD DET 120-1	EA	-	-	-	-	-	2	1	2	1	-	-	-	6
55	1/2" DECOMPOSED GRANITE, SANTA FE GOLD, 2" THICK	Ton	-	-	-	-	67	226	221	212	211	210	40	-	1,187
58	STORM DRAIN MANHOLE COMPLETE, MAG DET 520, 522 AND 423-1	EA	-	-	2	3	3	3	3	3	1	1	1	-	20
59	CATCH BASIN, MAG DET 530, TYPE A, 3'-6" OPENING	EA	-	-	-	4	2	2	-	1	-	1	1	-	11
60	CATCH BASIN, MAG DET 530, TYPE A, 5'-6" OPENING	EA	-	-	2	-	-	2	2	-	2	1	-	-	9
61	CONCRETE SCUPPER PER MAG STD DET 206, WIDTH AND OPENING PER PLAN	EA	-	-	-	-	-	-	-	-	-	2	-	-	2
63	CONCRETE HEADWALL ('U' TYPE), MAG DET 501-1 & 501-2	EA	-	-	-	-	-	-	1	-	-	-	-	-	1
66	FURNISH AND INSTALL SWING GATES PER DETAIL ON SHEET 32	EA	-	-	-	-	3	-	-	-	-	-	-	-	3
67	SAFETY RAIL, MAG DET 145, TYPE 2	LF	-	-	-	-	-	-	-	141	-	-	38	-	179
70	CONCRETE END SECTION (30"), MAG DET 545	EA	-	-	-	-	1	-	-	-	-	-	-	-	1
71	CONCRETE END SECTION (24"), MAG DET 545	EA	-	-	-	-	-	-	-	1	-	-	-	-	1
72	15" RGRCP, CLASS III	LF	-	-	10.0	36.5	46.0	33.5	-	-	11.5	10.5	-	-	148.0
73	15" RGRCP, CLASS V	LF	-	-	46.0	75.5	10.0	117.0	111.5	54.0	52.5	12.0	20.5		499.0
74	18" RGRCP, CLASS III	LF	-	-	-	-	-	-	76.5	-	-	-	387	-	464
75	18" RGRCP, CLASS V	LF	-	-	-	-	-	-	-	-	-	700	50	-	750
76	24" RGRCP, CLASS III	LF	-	-	450	950	380	-	600	597	120	-	-	-	3,097
77	30" RGRCP, CLASS III	LF	-	-	115	-	86.5	930	250	-	-	-	-	-	1,381.5
78	CONCRETE PIPE COLLAR PER MAG STD DET 505	EA	-	-	1	1	-	-	-	-	-	-	-	-	2
79	CONCRETE ENCASEMENT PER MAG DET 404-3	EA	-	-	1	-	-	-	-	-	-	-	-	-	1
80	PREFABRICATED CROSS, 30"X15"X15"	EA	-	-	-	-	-	2	-	-	-	-	-	-	2
81	PREFABRICATED TEE, 30"X18"	EA	-	-	-	-	-	-	1	-	-	-	-	-	1
82	PREFABRICATED TEE, 24"X15"	EA	-	-	-	-	-	-	1	1	-	-	-	-	2
83	PREFABRICATED TEE, 18"X15"	EA	-	-	-	-	-	-	-	-	-	1	-	-	1
84	CONNECT PROPOSED STORM DRAIN PIPE TO EXISTING BOX CULVERT PER DETAIL ON SHEET 110	EA	-	-	1	-	-	-	-	-	-	-	1	-	2

NO.	REVISION	BY	APPR	DATE

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ENGINEERING BRANCH
DESIGN SECTION

QUANTITIES

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/2/15
ARIZONA, U.S.A.
Expires 9/30/17

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

APPROXIMATE ROADWAY QUANTITIES

BID ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY / PLAN SHEET NUMBERS																		
			57	58	59	60	61	62	63	64	65	66	67	68	69	70	72	73	83	84	TOTAL
8	DUMPED RIPRAP, D50=6", BED THICKNESS 12"	TON	60	75	45	-	-	-	-	-	-	5	33	24	53	27	6	-	-	-	328
11	SUBGRADE PREPARATION	SY	6,742	9,784	7,096	4,160	-	-	237	68	5,073	6,337	5,769	5,583	6,688	6,655	2,044	650	-	-	66,886
12	TRIAX GEOGRID REINFORCEMENT (TX-5)	SY	6,742	9,784	7,096	4,160	-	-	237	68	5,073	6,337	5,769	5,583	6,688	6,655	2,044	-	-	-	66,236
13	AGGREGATE BASE COURSE, MAG 702, THICKNESS PER PLANS	TON	1,972	2,862	2,076	1,623	-	-	92	26	1,484	1,854	1,687	1,633	1,956	1,947	598	190	-	-	20,000
14	ASPHALT CONCRETE PAVEMENT (3/4" MIX), THICKNESS PER PLANS	TON	1,214	1,761	1,277	998	-	-	57	16	609	760	692	670	803	799	245	78	-	-	9,979
15	ASPHALT CONCRETE PAVEMENT (1/2" MIX), THICKNESS PER PLANS	TON	809	1,174	852	499	-	-	28	8	-	-	-	-	-	-	-	-	-	-	3,370
16	ASPHALT CONCRETE PAVEMENT (RUBBERIZED), THICKNESS PER PLANS	TON	-	-	-	-	-	-	-	-	609	760	692	670	803	799	245	78	-	-	4,656
17	BITUMINOUS TACK COAT SS-1H, DILUTED	TON	2.1	3.1	2.2	1.3	-	-	0.1	0.0	-	-	-	-	-	-	-	-	-	-	8.8
18	BITUMINOUS TACK COAT CSS-1H, DILUTED	TON	2.1	3.1	2.2	0.0	-	-	-	-	1.6	2.0	1.8	1.7	2.1	2.1	0.6	0.2	-	-	19.5
20	VERTICAL CURB & GUTTER, MAG STD DET. 220, TYPE A, H = 6"	LF	1427	1870	812	309	-	-	200	153	-	-	-	-	163	783	414	-	-	-	6,131
21	ROLL CURB & GUTTER, MAG STD DET. 220, TYPE C	LF	-	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82
22	SINGLE CURB PER MAG STD DET 222, TYPE A	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,823	1,928	4,751
23	CONCRETE SIDEWALK PER MAG STD DET 230	SF	12,485	15,559	7,747	8,204	9,000	9,000	8,585	1,204	1,086	217	-	-	-	423	-	-	-	-	73,510
24	CONCRETE SIDEWALK RAMP PER DETAILS ON SHEET 17-30	SF	358	1,433	-	1,962	-	-	-	-	542	-	-	-	-	-	-	-	-	-	4,295
26	MEDIAN CONCRETE PAVERS PER MAG STD DET 225	SF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,669	6,054	20,723
27	MEDIAN NOSE TRANSITION PER MAG STD DET 223 (4" THICK PAVING LIMITS PER PLAN)	SF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	974	1344	2,318
29	CONCRETE DRIVEWAY PER MAG STD DET 250-1	SF	-	285	96	356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	737
33	3" AC DRIVEWAY CONNECTION ON COMPACTED NATIVE	SF	-	624	79	543	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,246
34	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A	EA	2	10	2	5	-	1	1	-	5	6	2	4	6	-	-	-	-	-	44
35	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422	EA	-	1	2	2	-	-	1	-	-	4	2	1	-	1	-	-	-	-	14
37	REMOVAL OF EXISTING CONCRETE CURB	LF	-	194	-	410	-	-	-	-	111	13	77	56	43	13	555	-	-	-	1,472
39	REMOVAL OF EXISTING SIDEWALK	SF	-	-	-	-	-	-	-	-	-	65	385	280	215	65	-	-	-	-	1,010
42	REMOVAL OF EXISTING SIDEWALK RAMP	SF	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
43	REMOVAL OF TRAFFIC BARRICADE	LF	-	-	-	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47
44	REMOVAL OF TRAFFIC BARRELS	EA	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
52	FURNISH AND INSTALL BARRICADES PER MAG STD DET 130	LF	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124
53	SURVEY MARKER, TYPE A PER MAG STD DET 120-1	EA	1	1	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	2
54	SURVEY MARKER, TYPE B PER MAG STD DET 120-1	EA	1	1	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	2
55	1/2" DECOMPOSED GRANITE, SANTA FE GOLD, 2" THICK	TON	513	601	334	45	-	-	-	-	-	-	-	-	-	-	-	-	115	47	1,655
61	CONCRETE SCUPPER PER MAG STD DET 206, WIDTH AND OPENING PER PLAN	EA	3	3	2	-	-	-	-	-	1	1	5	4	6	3	-	-	-	-	28
62	CONCRETE SPILLWAY PER DETAIL ON SHEET 12	EA	-	-	-	-	-	-	-	-	-	1	3	2	2	-	-	-	-	-	8
64	MASONRY SOUND WALL PER ADOT STD DWG 8.02 ON SHEET 35	SF	-	555	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	555
65	CHAIN LINK FENCE PER MAG STD DET 160	LF	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16

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QUANTITIES

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/2/15 ARIZONA, U.S.A. Expires 9/30/17

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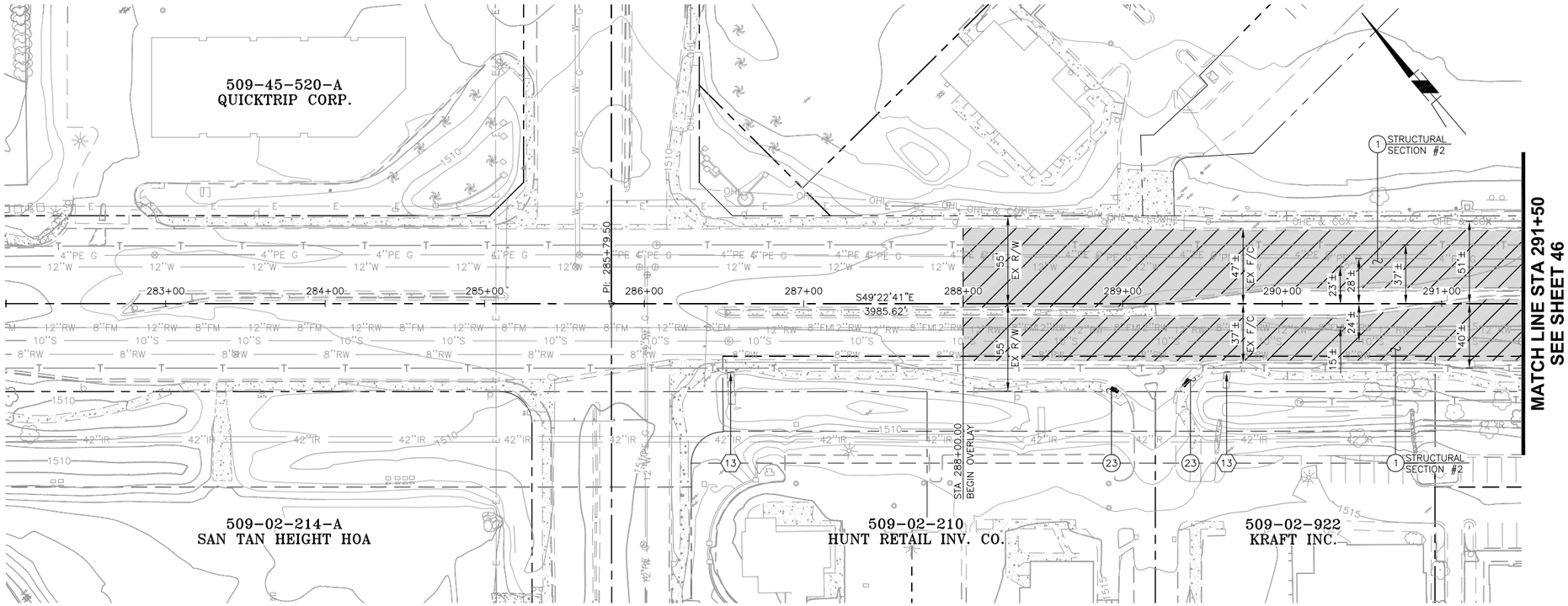
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

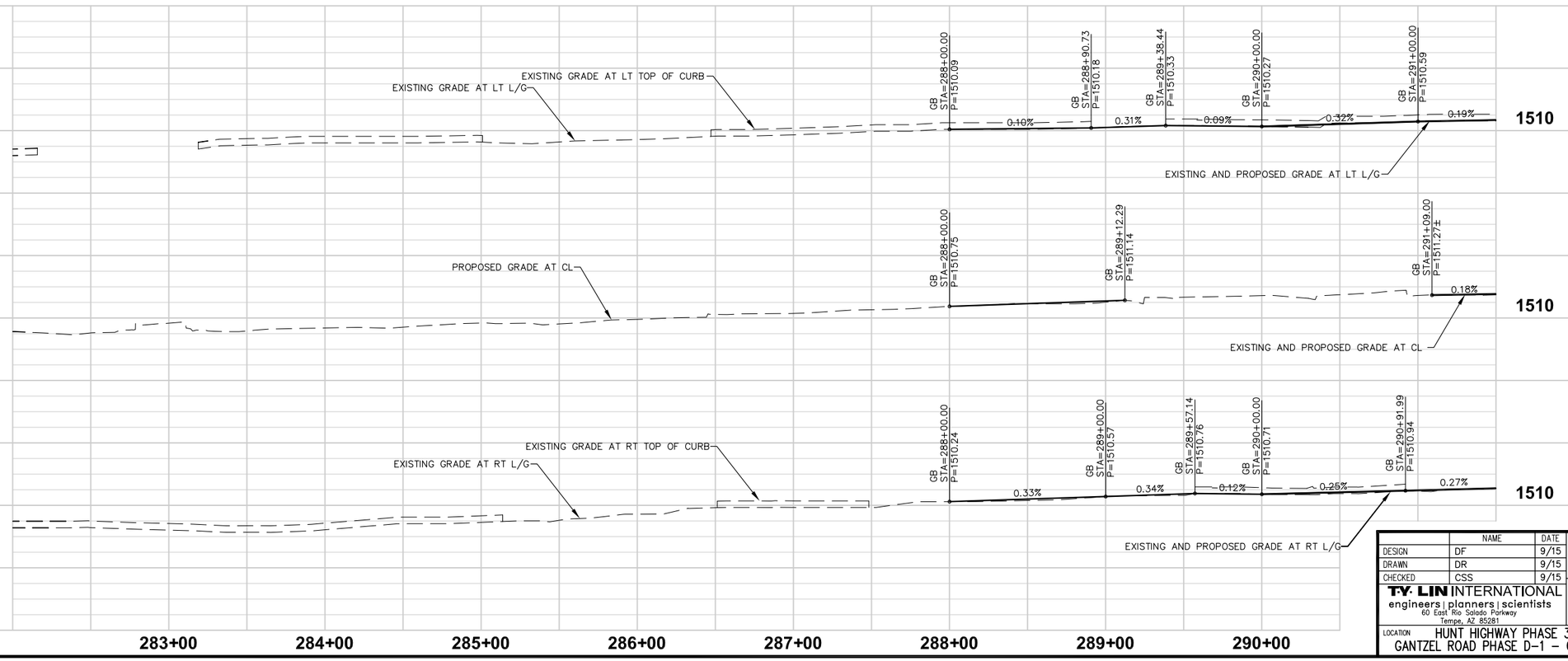


PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	24,857 SF
23	FURNISHED INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	20 SF

STORM DRAIN CONSTRUCTION NOTES

13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206-2.	8 LF



NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 45 OF 176

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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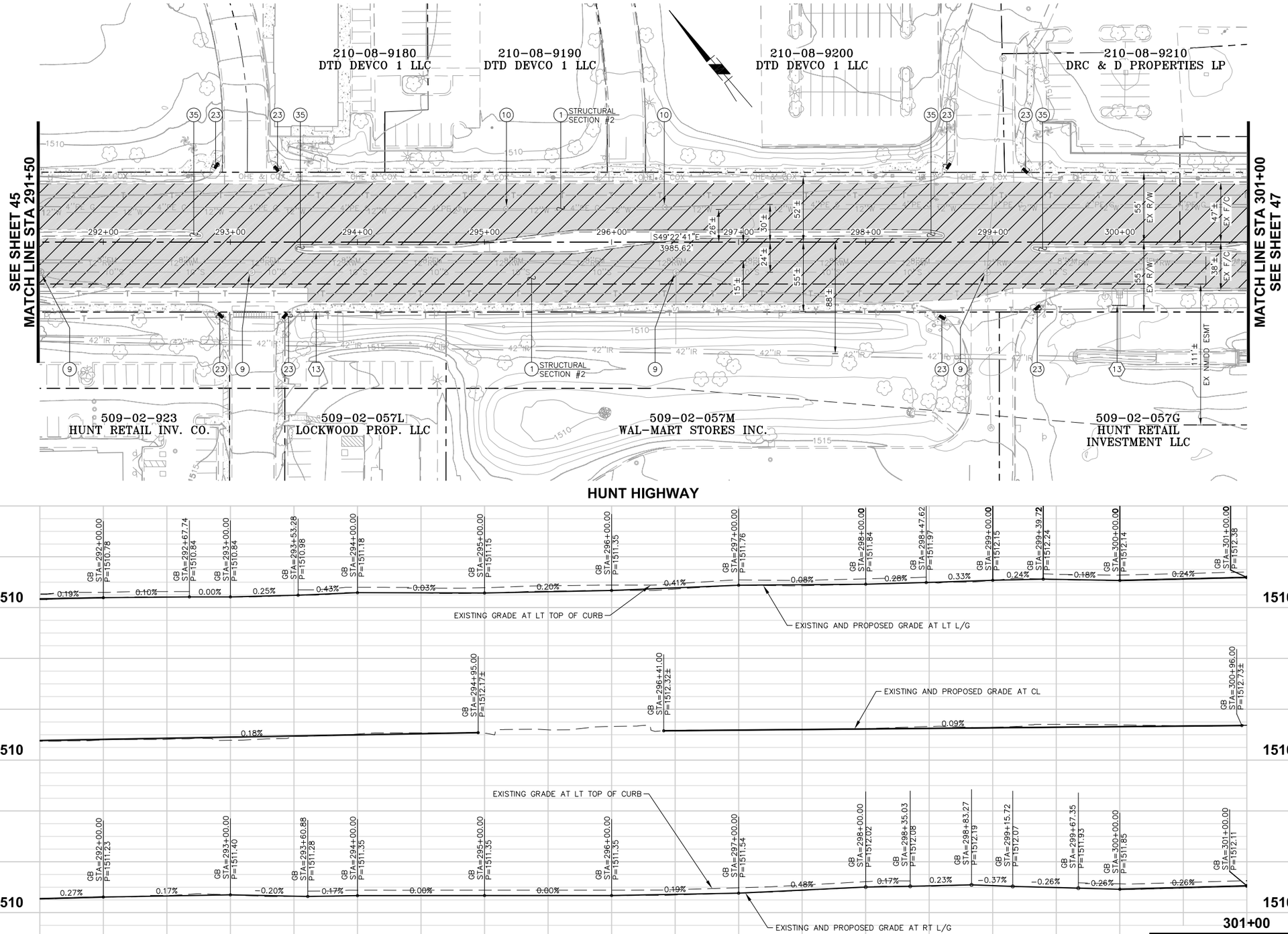

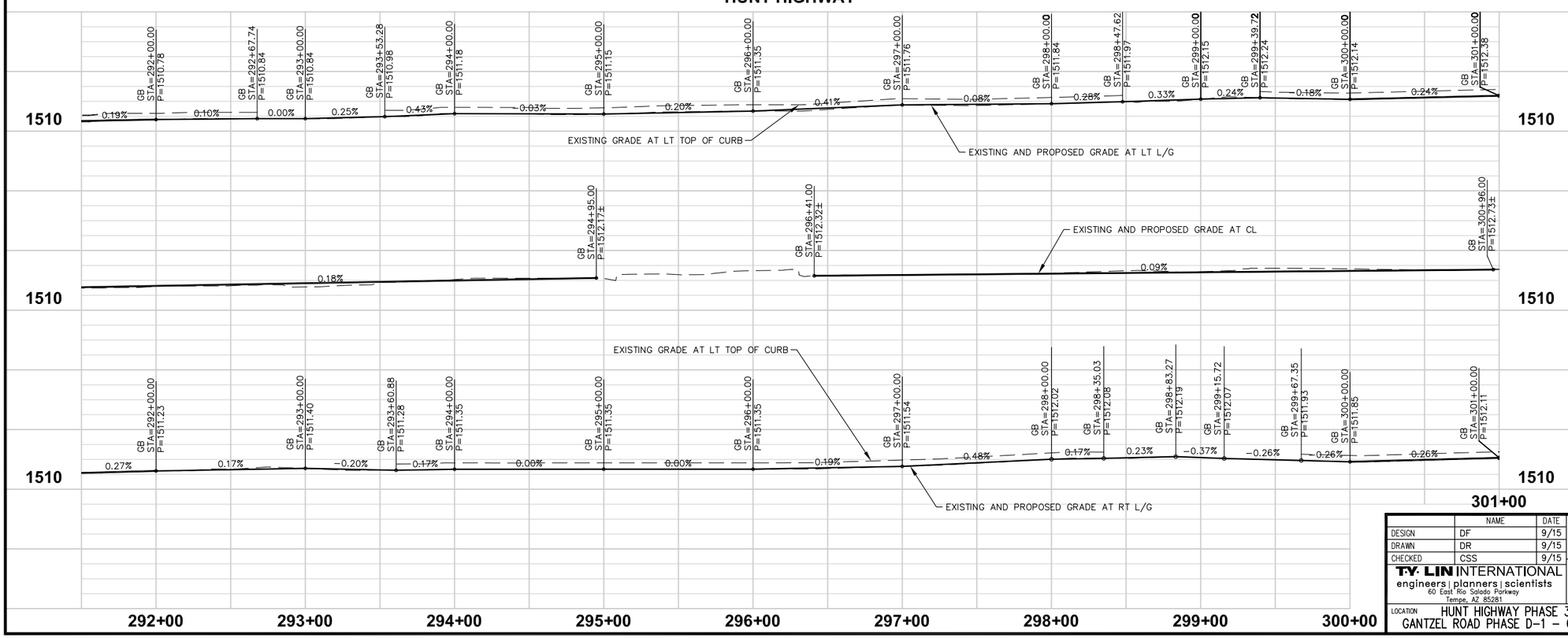

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	82,568 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422	4 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	2 EA
23	FURNISHED INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	80 SF
35	PAINT MEDIAN BULL NOSE PER ADOT STD DWG M-1.	4 EA

STORM DRAIN CONSTRUCTION NOTES

13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206-2.	16 LF

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

LOCATION: HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
49279
CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 9/30/17

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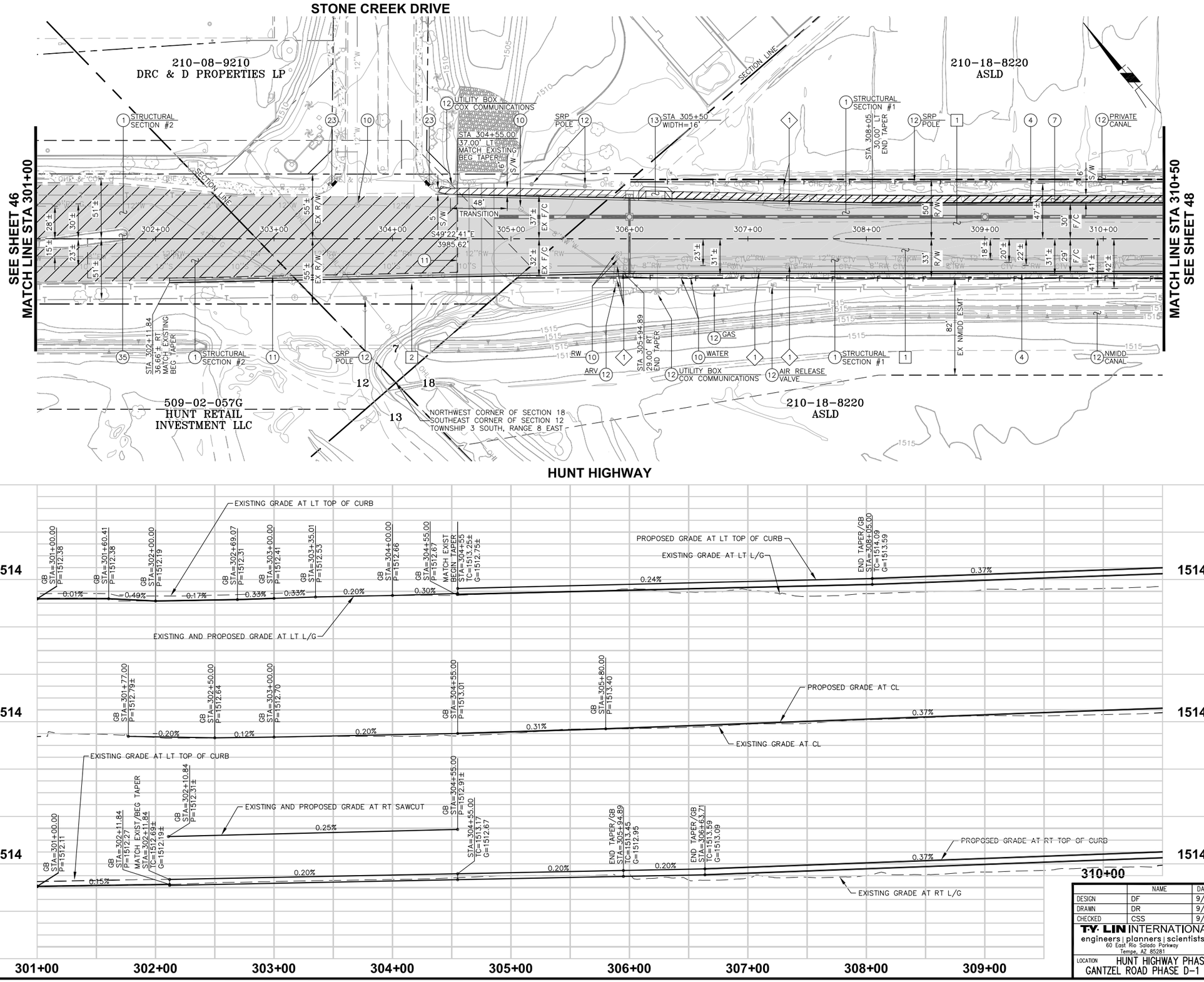
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	59,550 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,420 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	3,426 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	6 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
13	CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DET 250-2, WIDTH PER PLAN	252 SF
23	FURNISHED INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	20 SF
35	PAINT MEDIAN BULL NOSE PER ADOT STD DWG M-1.	1 EA

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	16,554 SF
2	REMOVE EXISTING CONCRETE CURB.	371 LF

REMOVAL / RELOCATE BY OTHERS

1 SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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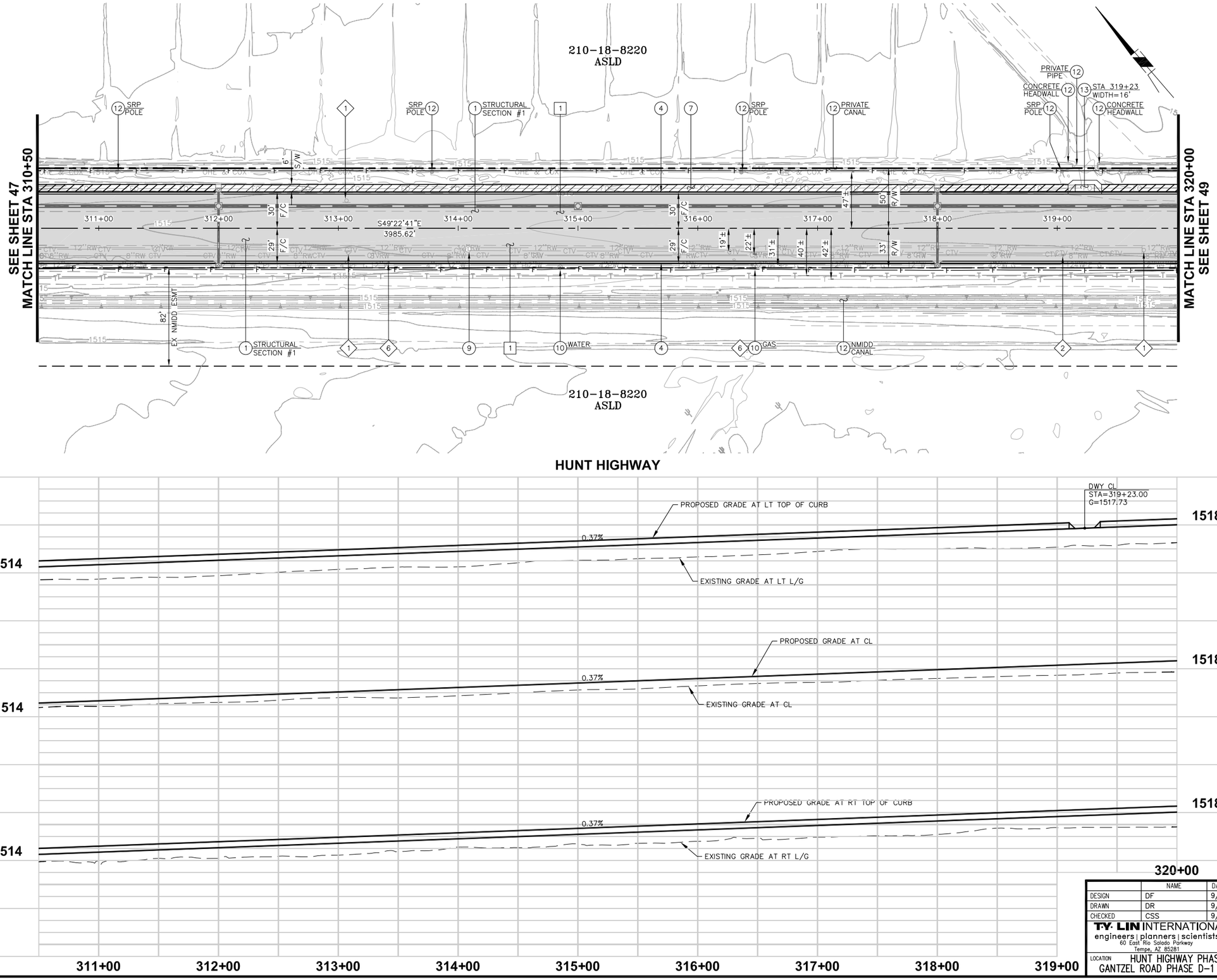
9	AZ	62952173 & 662170001			



PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	53,204 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,881 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	5,475 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422	1 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A.	2 EA
12	PROTECT IN PLACE.	N.P.I.
13	CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DET 250–2, WIDTH PER PLAN	252 SF

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	27,225 SF

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.	
2	CABLE TV/FO BOX, UTILITY MARKER TO BE RELOCATED BY OTHERS.	1 EA
6	GAS MARKER TO BE RELOCATED BY OTHERS.	2 EA

NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

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PAVING PLAN AND PROFILE SHEET

LOCATION: HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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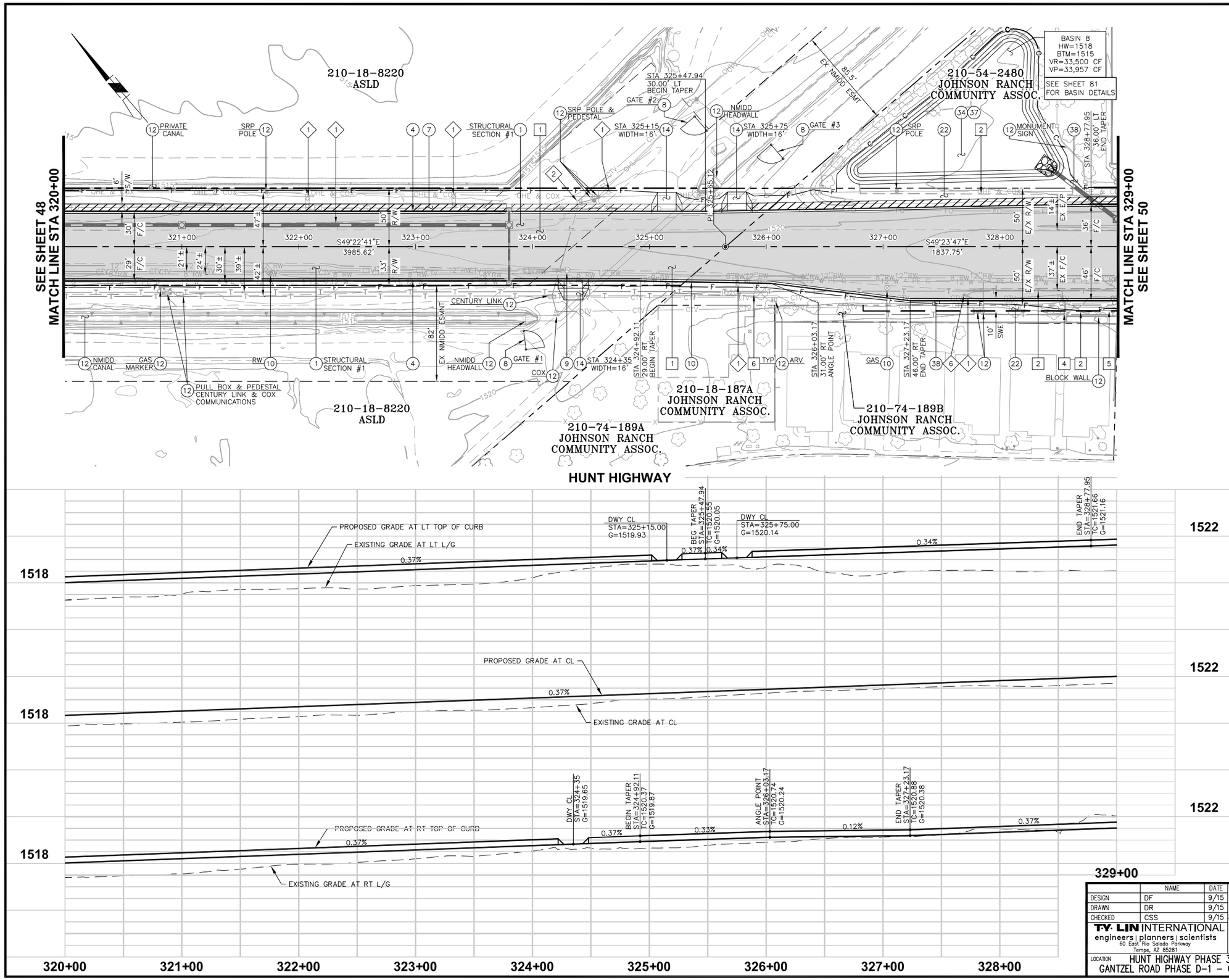
9	AZ	62952173 & 662170001			



PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	55,722 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,792 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	5,063 SF
8	FURNISH AND INSTALL SWING GATES PER DETAIL ON SHEET 32.	3 EA
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422	1 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	3 EA
12	PROTECT IN PLACE.	N.P.I.
14	CONSTRUCT CONCRETE WING TYPE ALLEY ENTRANCE PER MAG STD DET 262, WIDTH PER PLAN	1,093 SF
22	FURNISH AND INSTALL 1/2" DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE GOLD.	67 TONS
34	REMOVE AND RESTORE IRRIGATION SYSTEM PER SHEETS 33, 33A AND TECNICAL PROVISIONS & SPECIFICATIONS.	15,405 SF
37	REMOVE AND RESTORE LAWN PER SHEETS 33, 33A AND TECHNICAL PROVISIONS & SPECIFICATIONS.	15,405 SF
38	LANDSCAPE RESTORATION PER TECHNICAL PROVISIONS & SPECIFICATIONS.	

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	33,468 SF
2	REMOVE EXISTING CONCRETE CURB.	752 LF
4	REMOVE EXISTING CONCRETE HEADWALL.	1 EA
5	REMOVE EXISTING STORM DRAIN PIPE.	44 LF
6	REMOVE AND DISPOSE OF EXISTING TREE. SEE TECHNICAL PROVISIONS AND SPECIFICATIONS.	4 EA

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.	
2	CABLE TV/FO BOX, UTILITY MARKER TO BE RELOCATED BY OTHERS.	1 EA
6	GAS MARKER TO BE RELOCATED BY OTHERS.	1 EA

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
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REGISTERED PROFESSIONAL ENGINEER (CIVIL)
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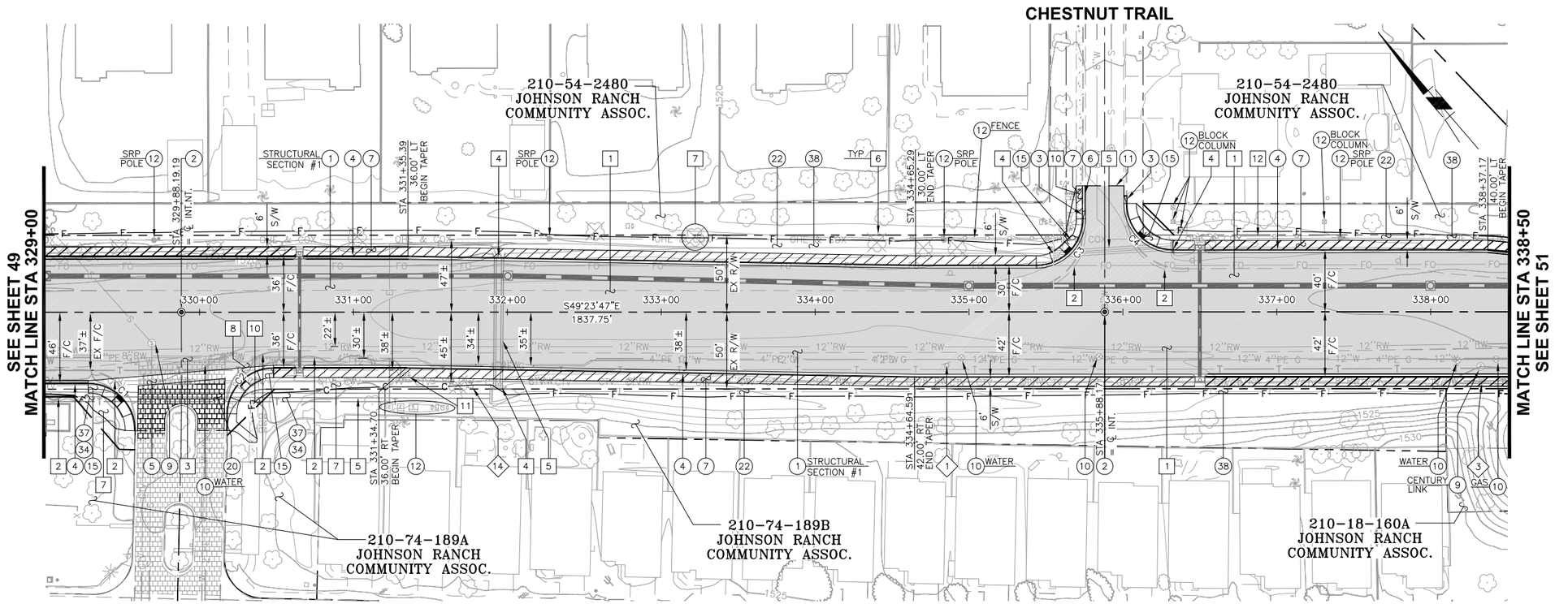

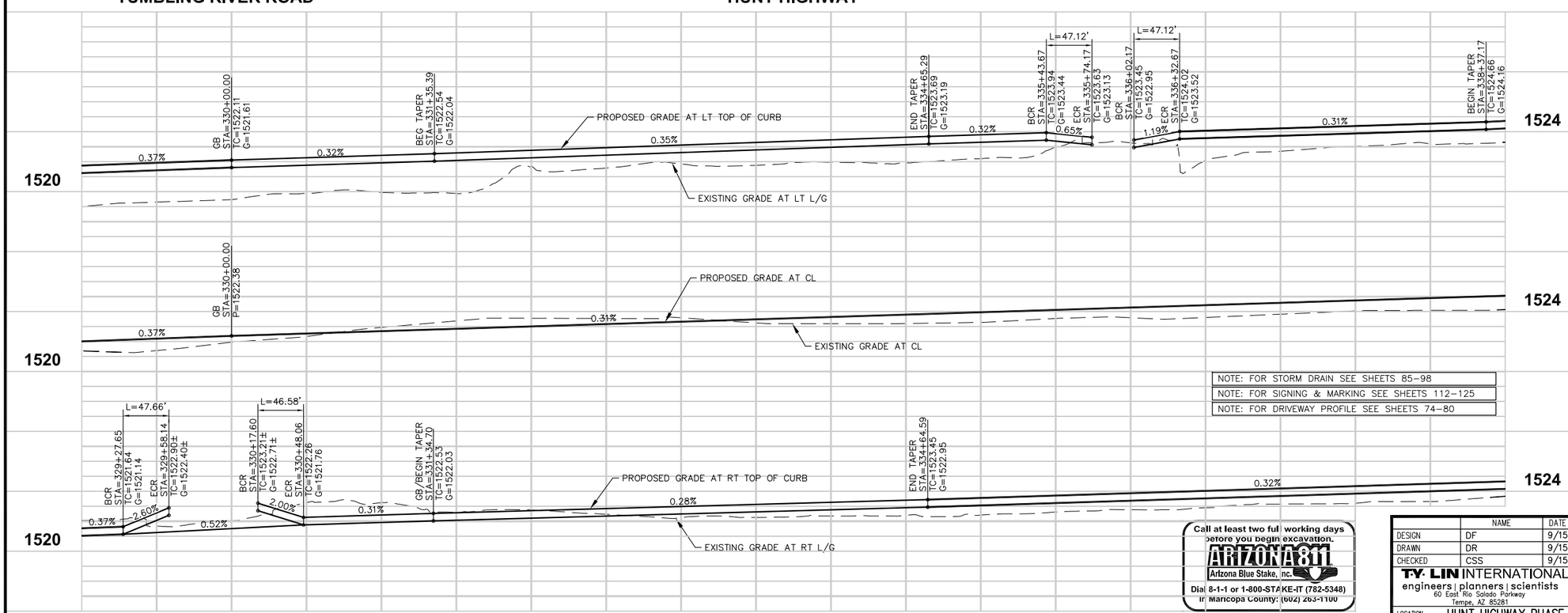

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PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	70,694 SF
2	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120–1, TYPE A.	2 EA
3	CONSTRUCT CURB AND GUTTER TRANSITION TYPE 'A' TO TYPE 'C' PER MAG STD DET 221.	2 EA
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,870 LF
5	CONSTRUCT VALLEY GUTTER PER MAG STD 240.	929 SF
6	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE C.	27 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	10,075 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422	2 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A.	5 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
15	CONSTRUCT SIDEWALK RAMP PER DETAILS ON SHEETS 17–30.	1,061 SF
20	CONCRETE PAVERS PER MAG STD DET 225 AND TYPICAL STRUCTURAL SECTION ON SHEET 6.	1,441 SF
22	FURNISH AND INSTALL 1/2" DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE GOLD.	226 TONS
34	REMOVE AND RESTORE IRRIGATION SYSTEM PER SHEETS 33, 33A AND TECNICAL PROVISIONS & SPECIFICATIONS.	XX SF
37	REMOVE AND RESTORE LAWN PER SHEETS 33, 33A AND TECHNICAL PROVISIONS & SPECIFICATIONS.	XX SF
38	LANDSCAPE RESTORATION PER TECHNICAL PROVISIONS & SPECIFICATIONS.	

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	44,211 SF
2	REMOVE EXISTING CURB & GUTTER.	632 LF
3	REMOVE EXISTING APRON & VALLEY GUTTER.	917 SF
4	REMOVE EXISTING CONCRETE HEADWALL.	4 EA
5	REMOVE EXISTING STORM DRAIN PIPE.	606 LF
6	REMOVE AND DISPOSE OF EXISTING TREE. SEE TECHNICAL PROVISIONS AND SPECIFICATIONS.	13 EA
7	RELOCATE EXISTING MEMORIAL TO NEAREST TREE.	1 EA
8	REMOVE EXISTING SIDEWALK RAMP.	171 SF
10	REMOVE EXISTING SIDEWALK.	364 SF
11	RELOCATE EXISTING IRRIGATION CONTROL VALVE.	1 EA
12	REMOVE EXISTING FENCE.	107 LF

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.	
3	TELEPHONE PEDESTAL, MH, UTILITY MARKER TO BE RELOCATED BY OTHERS.	1 EA
14	WATER METER TO BE RELOCATED/REMOVED BY OTHERS	1 EA

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	91°01'00"	30.00'	47.66'	30.54'
C2	88°57'34"	30.00'	46.58'	29.46'
C3	90°00'00"	30.00'	47.12'	30.00'
C4	90°00'00"	30.00'	47.12'	30.00'

NOTE: ALL LINE/CURVE DATA TO BACK OF CURB.

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SCALE: 1" = 40'
VERT: 1" = 4'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 9/30/17

SHEET 50 OF 176

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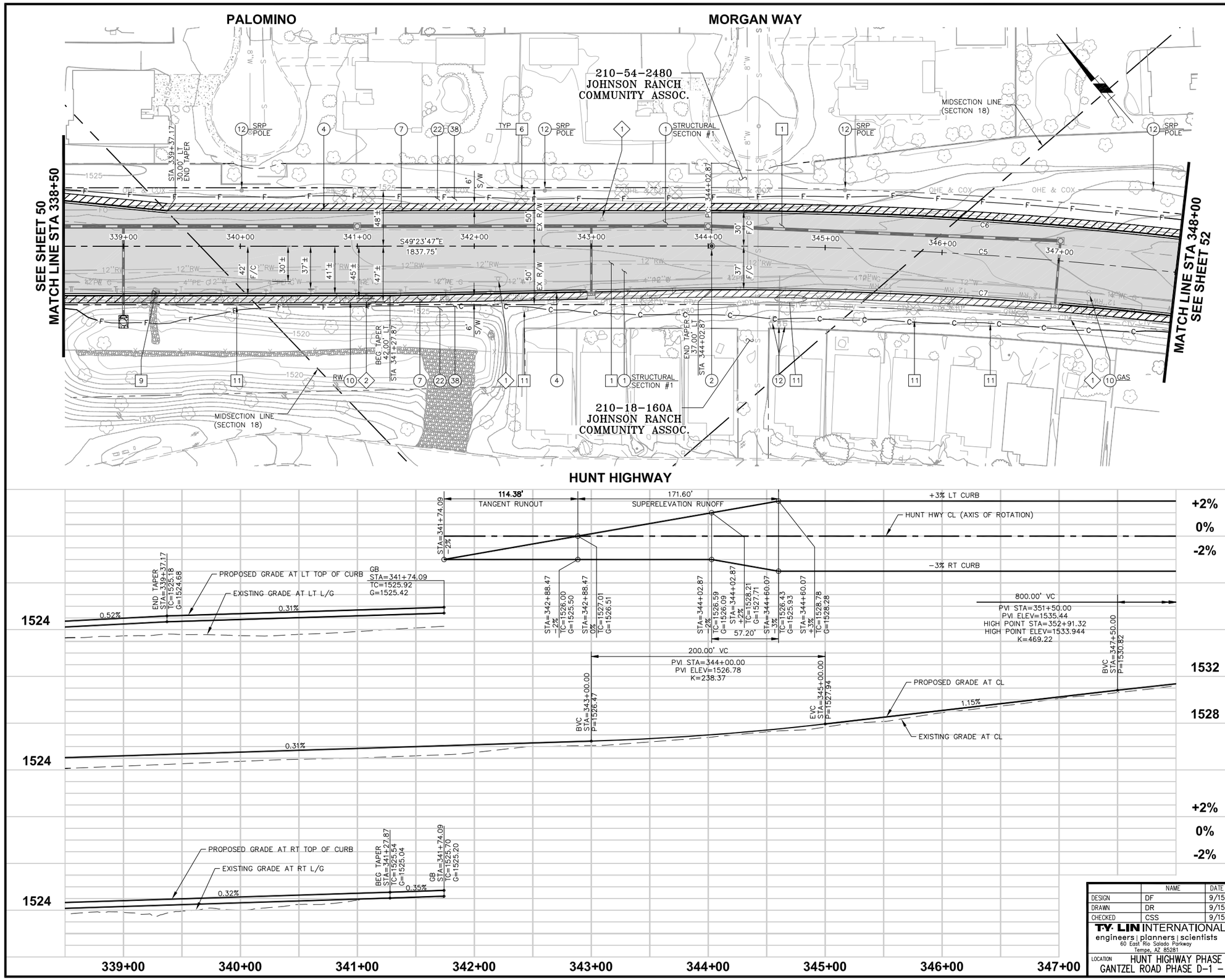
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	63,231 SF
2	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120-1, TYPE A.	1 EA
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,886 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	11,316 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	2 EA
12	PROTECT IN PLACE.	N.P.I.
22	FURNISH AND INSTALL 1/2" DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE GOLD.	221 TONS
38	LANDSCAPE RESTORATION PER PROJECT SPECIFICATIONS.	

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	32,507 SF
6	REMOVE AND DISPOSE OF EXISTING TREE. SEE TECHNICAL PROVISIONS AND SPECIFICATIONS.	12 EA
9	REMOVE EXISTING RIP RAP.	289 SF
11	RELOCATE EXISTING IRRIGATION CONTROL VALVE.	7 EA

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.	
2	CABLE TV/FO BOX, UTILITY MARKER TO BE RELOCATED BY OTHERS.	1 EA

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C5	12°43'17"	3500.00'	777.11'	390.16'
C6	12°43'17"	3532.00'	784.21'	393.73'
C7	12°43'17"	3463.00'	768.89'	386.03'

NOTE: ALL LINE/CURVE DATA TO BACK OF CURB.

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 49279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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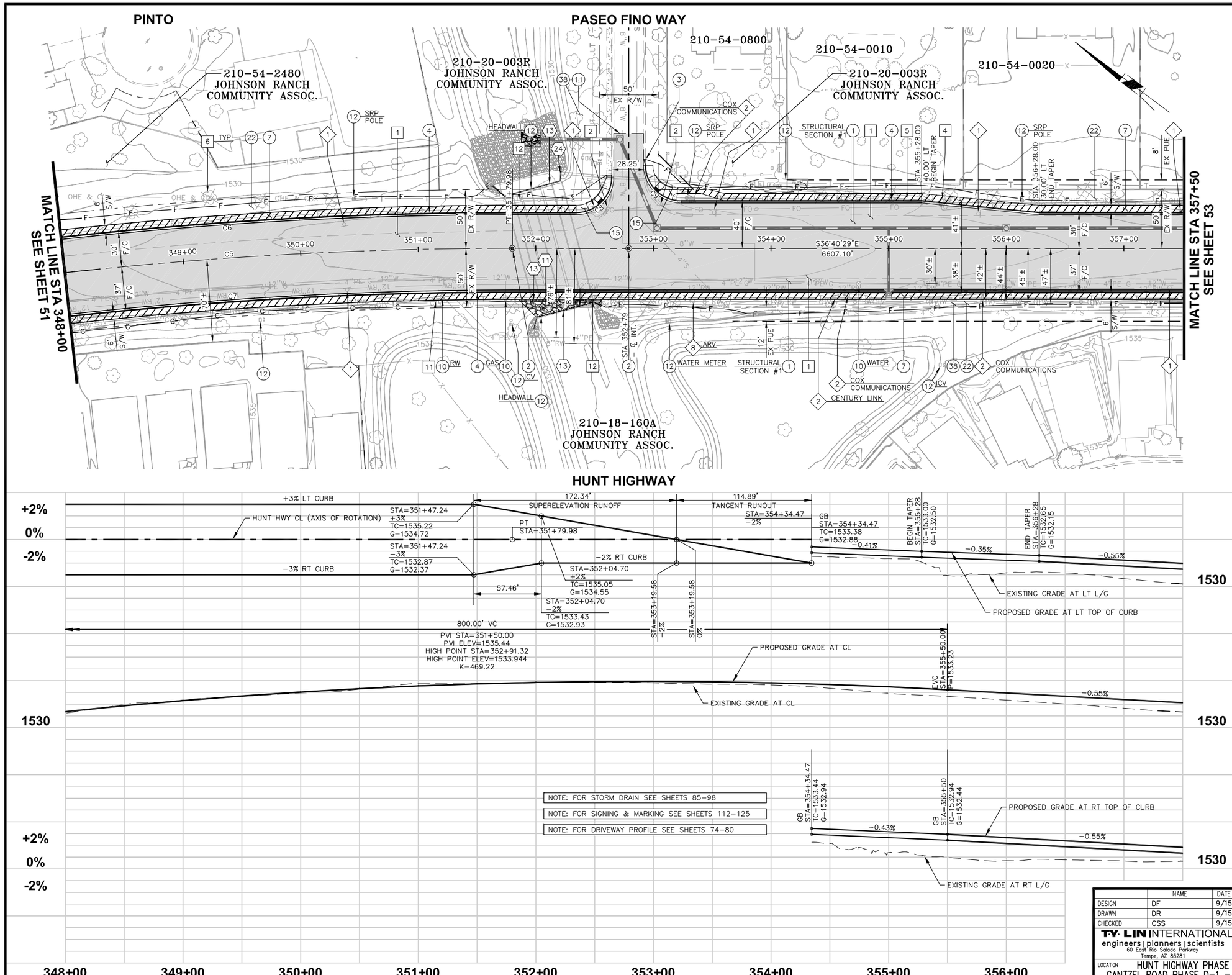
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	65,814 SF
2	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120–1, TYPE A.	2 EA
3	CONSTRUCT CURB AND GUTTER TRANSITION TYPE 'A' TO TYPE 'C' PER MAG STD DET 221	1 EA
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,902 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	19,828 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A.	3 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
15	CONSTRUCT SIDEWALK RAMP PER DETAILS ON SHEETS 17–30.	554 SF
22	FURNISH AND INSTALL 1/2" DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE GOLD.	212 TONS
38	LANDSCAPE RESTORATION PER PROJECT SPECIFICATIONS.	

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	47,195 SF
2	REMOVE EXISTING CURB & GUTTER.	164 LF
4	REMOVE EXISTING CONCRETE HEADWALL.	1 EA
5	REMOVE EXISTING STORM DRAIN PIPE.	322 LF
6	REMOVE AND DISPOSE OF EXISTING TREE. SEE TECHNICAL PROVISIONS AND SPECIFICATIONS.	21 EA
11	RELOCATE EXISTING IRRIGATION CONTROL VALVE.	1 EA
12	REMOVE EXISTING FENCE.	215 LF

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.	
2	CABLE TV/FO BOX, UTILITY MARKER TO BE RELOCATED BY OTHERS.	3 EA
8	AIR RELEASE VALVE TO BE RELOCATED BY OTHERS.	1 EA

STORM DRAIN CONSTRUCTION NOTES

11	FURNISH & INSTALL GROUTED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	850 CY
13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206–2.	210 LF
24	CONSTRUCT PIPE PLUG PER MAG STD DET 427.	1 EA

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C5	12°43'17"	3500.00'	777.11'	390.16'
C6	12°43'17"	3532.00'	784.21'	393.73'
C7	12°43'17"	3456.00'	767.34'	385.25'
C8	90°00'00"	30.00'	47.12'	30.00'
C9	90°00'00"	30.00'	47.12'	30.00'

NOTE: ALL LINE/CURVE DATA TO BACK OF CURB.

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 52 OF 176

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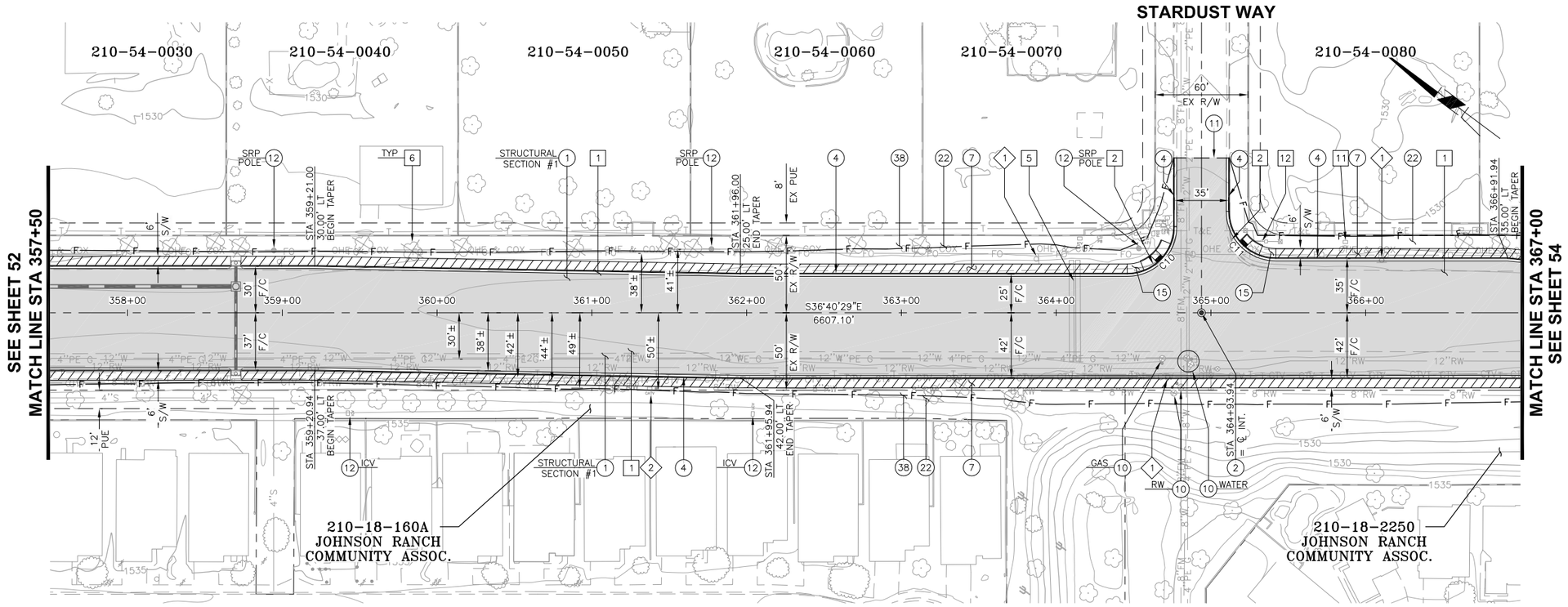
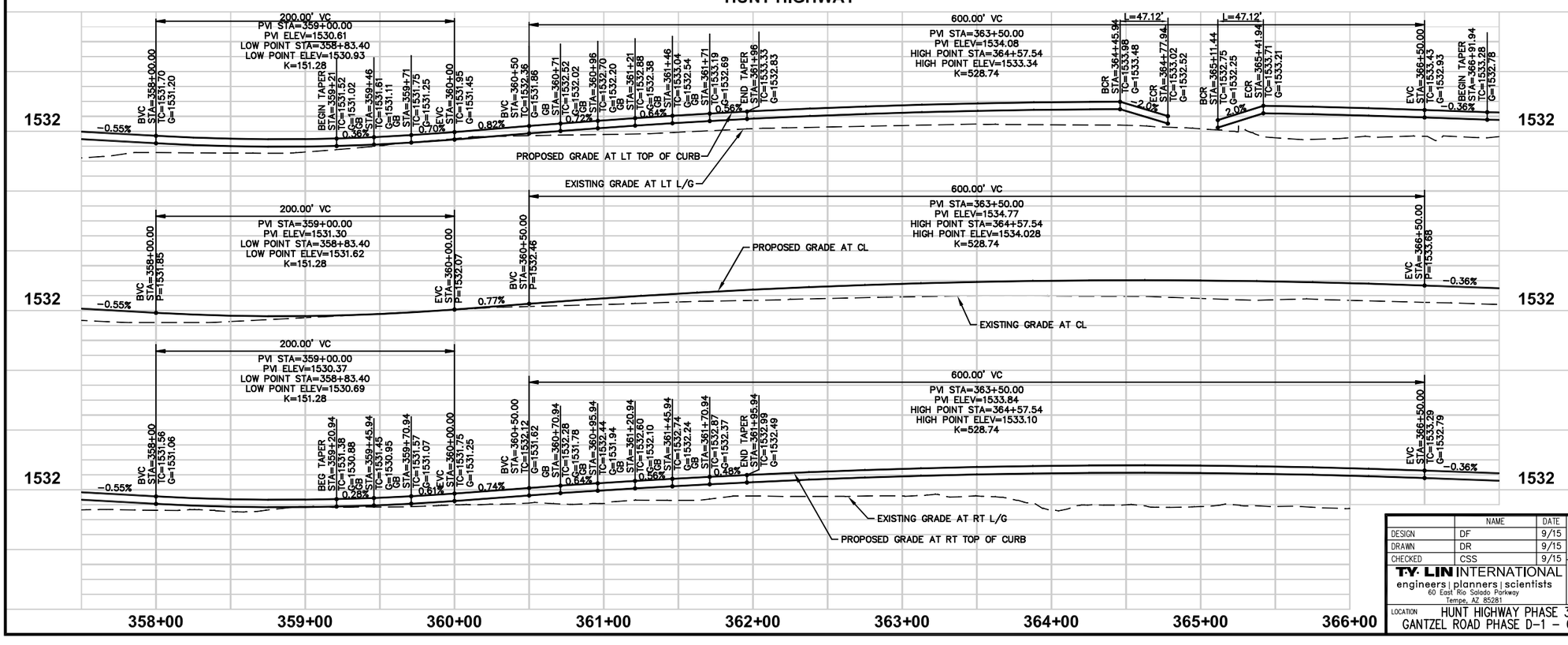
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	65,605 SF
2	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120-1, TYPE A.	1 EA
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,966 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	10,743 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	5 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
15	CONSTRUCT SIDEWALK RAMP PER DETAILS ON SHEETS 17-30.	425 SF
22	FURNISH AND INSTALL 1/2" DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE GOLD.	211 TONS
38	LANDSCAPE RESTORATION PER PROJECT SPECIFICATIONS.	

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	53,027 SF
2	REMOVE EXISTING CURB & GUTTER.	172 LF
5	REMOVE EXISTING STORM DRAIN PIPE.	131 LF
6	REMOVE AND DISPOSE OF EXISTING TREE. SEE TECHNICAL PROVISIONS AND SPECIFICATIONS.	22 EA
11	RELOCATE EXISTING IRRIGATION CONTROL VALVE.	1 EA
12	REMOVE EXISTING FENCE.	72 LF

REMOVAL / RELOCATE BY OTHERS

1 SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C10	90°00'00"	30.00'	47.12'	30.00'
C11	90°00'00"	30.00'	47.12'	30.00'

NOTE: ALL LINE/CURVE DATA TO BACK OF CURB.

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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PAVING PLAN AND PROFILE SHEET

LOCATION: HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
49279
CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 9/30/17

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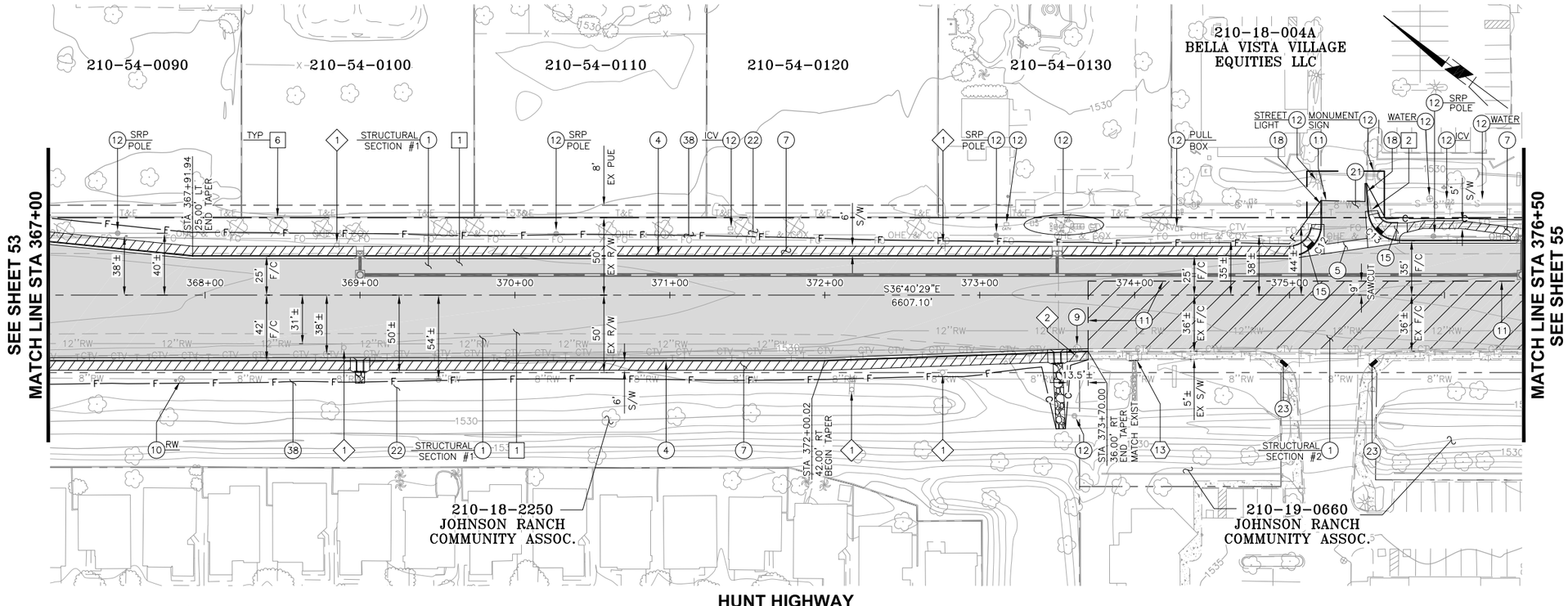
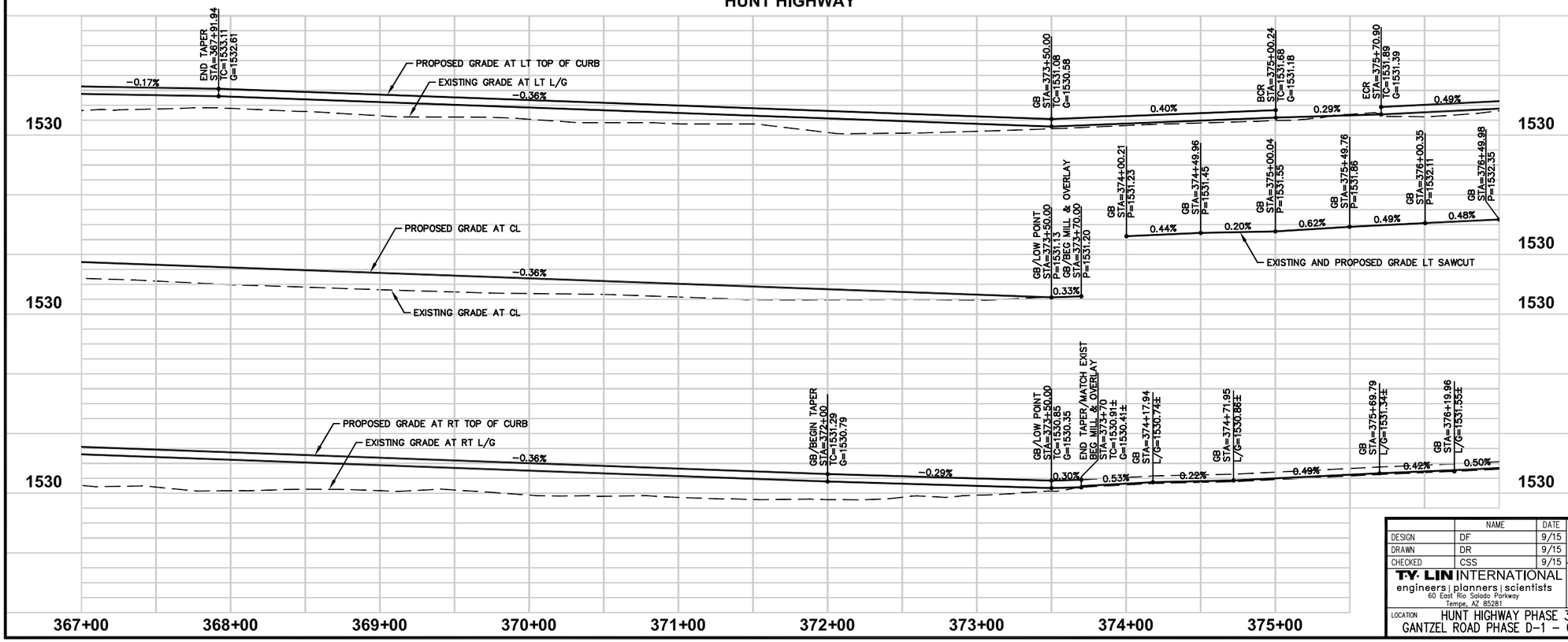
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	60,264 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,574 LF
5	CONSTRUCT VALLEY GUTTER PER MAG STD DET 240.	457 SF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	9,040 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422	1 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A	1 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
15	CONSTRUCT SIDEWALK RAMP PER DETAILS ON SHEETS 17–30.	414 SF
18	CONSTRUCT SINGLE CURB PER MAG STD DET 222, TYPE A	33 LF
21	CONSTRUCT 3" AC DRIVEWAY CONNECTION ON COMPACTED GROUND.	14 TON
22	FURNISH AND INSTALL DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE BROWN.	210 TONS
23	FURNISHED INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	20 SF
38	LANDSCAPE RESTORATION PER PROJECT SPECIFICATIONS.	

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	38.353 SF
2	REMOVE EXISTING CURB & GUTTER.	24 LF
6	REMOVE AND DISPOSE OF EXISTING TREE. SEE TECHNICAL PROVISIONS AND SPECIFICATIONS.	15 EA

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.	
2	CABLE TV/FO BOX, UTILITY MARKER TO BE RELOCATED BY OTHERS.	1 EA

STORM DRAIN CONSTRUCTION NOTES

13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206–2.	8 LF

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C12	90°11'00"	20.00'	31.48'	20.06'
C13	86°11'46"	20.00'	30.09'	18.71'

NOTE: ALL LINE/CURVE DATA TO BACK OF CURB.

NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

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PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 49279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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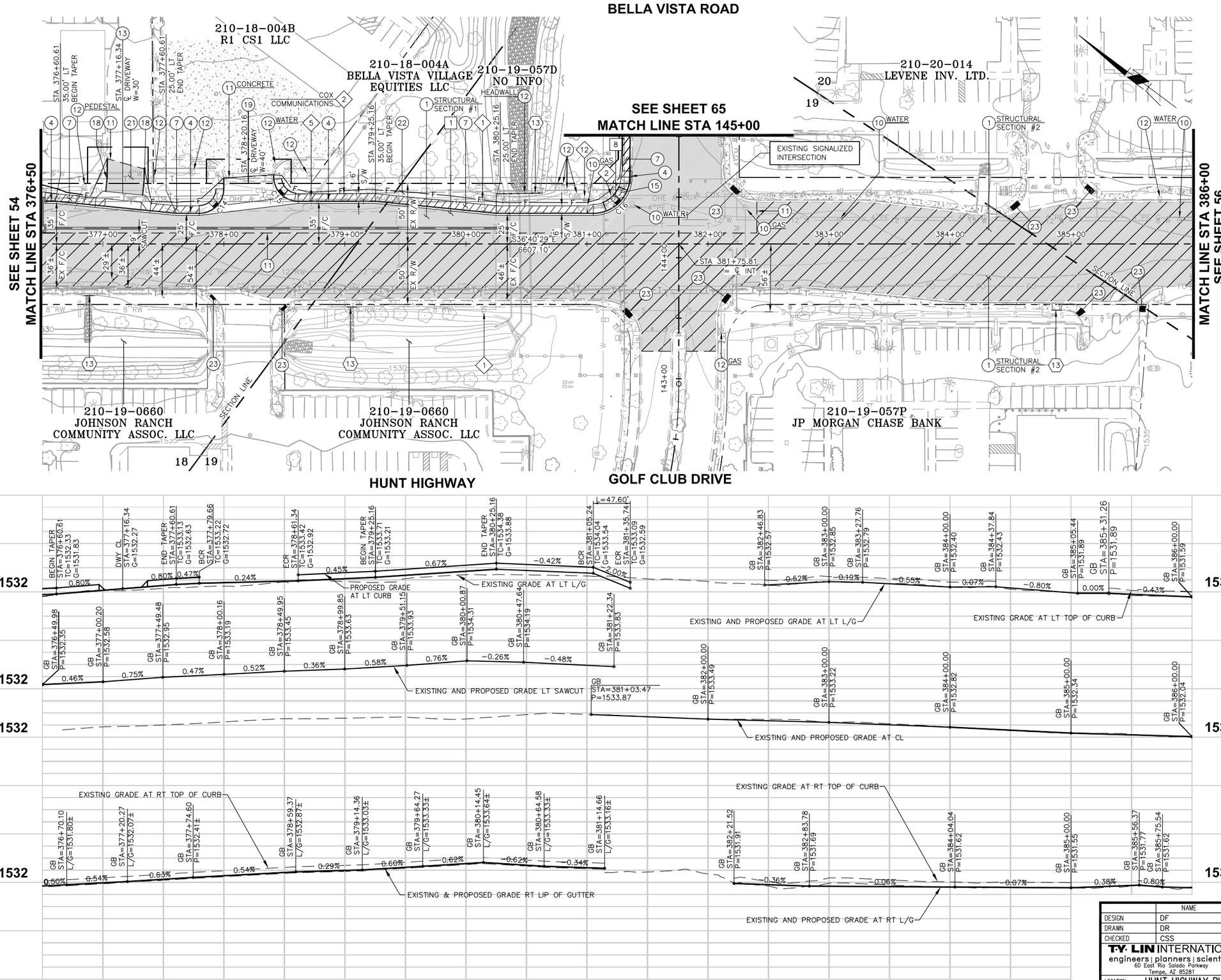

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	74,222 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	491 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	2,169 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A	1 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
13	CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DET 250–2, WIDTH PER PLAN	518 SF
15	CONSTRUCT SIDEWALK RAMP PER DETAILS ON SHEETS 17–30.	655 SF
18	CONSTRUCT SINGLE CURB PER MAG STD DET 222, TYPE A	58 LF
19	CONSTRUCT CONCRETE DRIVEWAY PER DETAIL ON SHEET 22.	1,352 SF
21	CONSTRUCT 3" AC DRIVEWAY CONNECTION ON COMPACTED GROUND.	13 TON
22	FURNISH AND INSTALL DECOMPOSED GRANITE, 2" MINIMUM DEPTH. COLOR TO BE SANTA FE BROWN.	40 TONS
23	FURNISHED INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	90 SF

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	4,644 SF
8	REMOVE EXISTING SIDEWALK RAMP.	146 SF

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.	
2	CABLE TV/FO BOX, UTILITY MARKER TO BE RELOCATED BY OTHERS.	2 EA
5	POWER POLE TO BE RELOCATED BY OTHERS.	1 EA
12	POWER POLE TO BE REMOVED BY OTHERS.	1 EA

STORM DRAIN CONSTRUCTION NOTES

13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206–2.	62 LF

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C14	90°00'00"	20.00'	31.42'	20.00'
C15	94°40'01"	20.00'	33.04'	21.70'
C16	89°24'46"	30.00'	46.82'	29.69'

NOTE: ALL LINE/CURVE DATA TO BACK OF CURB.

NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

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ENGINEERING BRANCH
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PAVING PLAN AND PROFILE SHEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
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SHEET 55 OF 176

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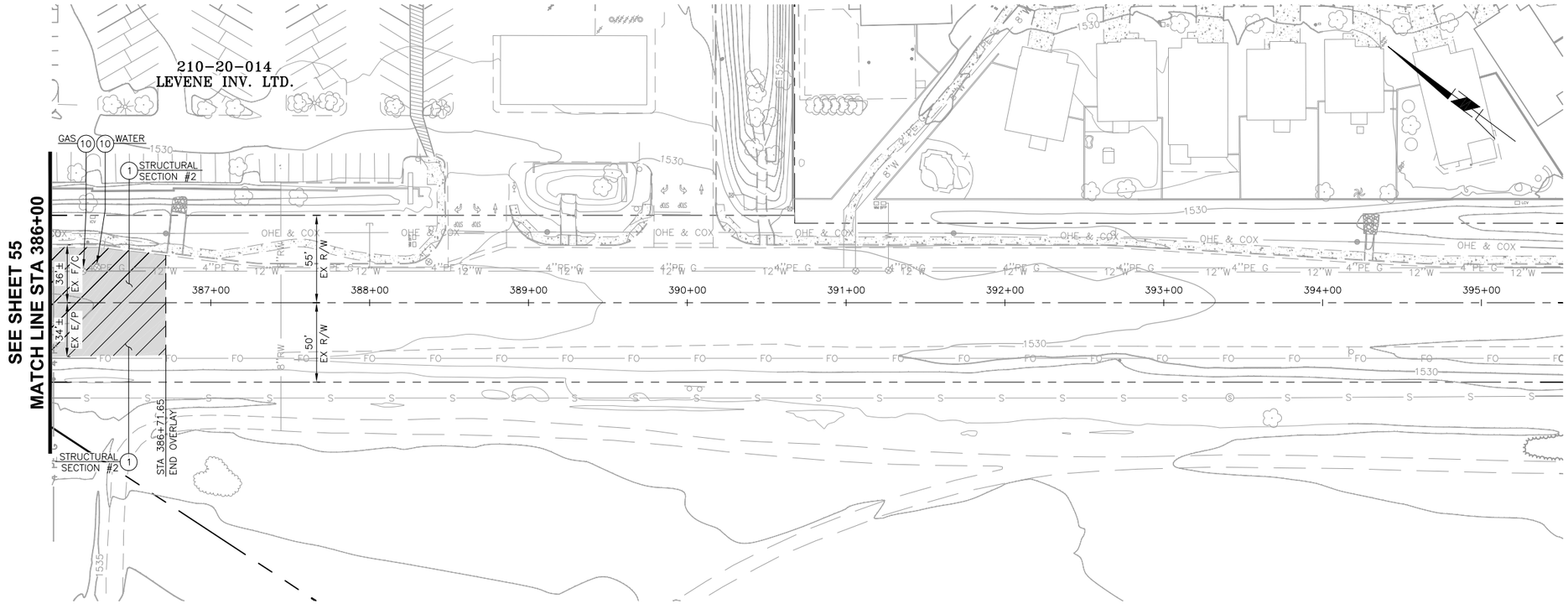
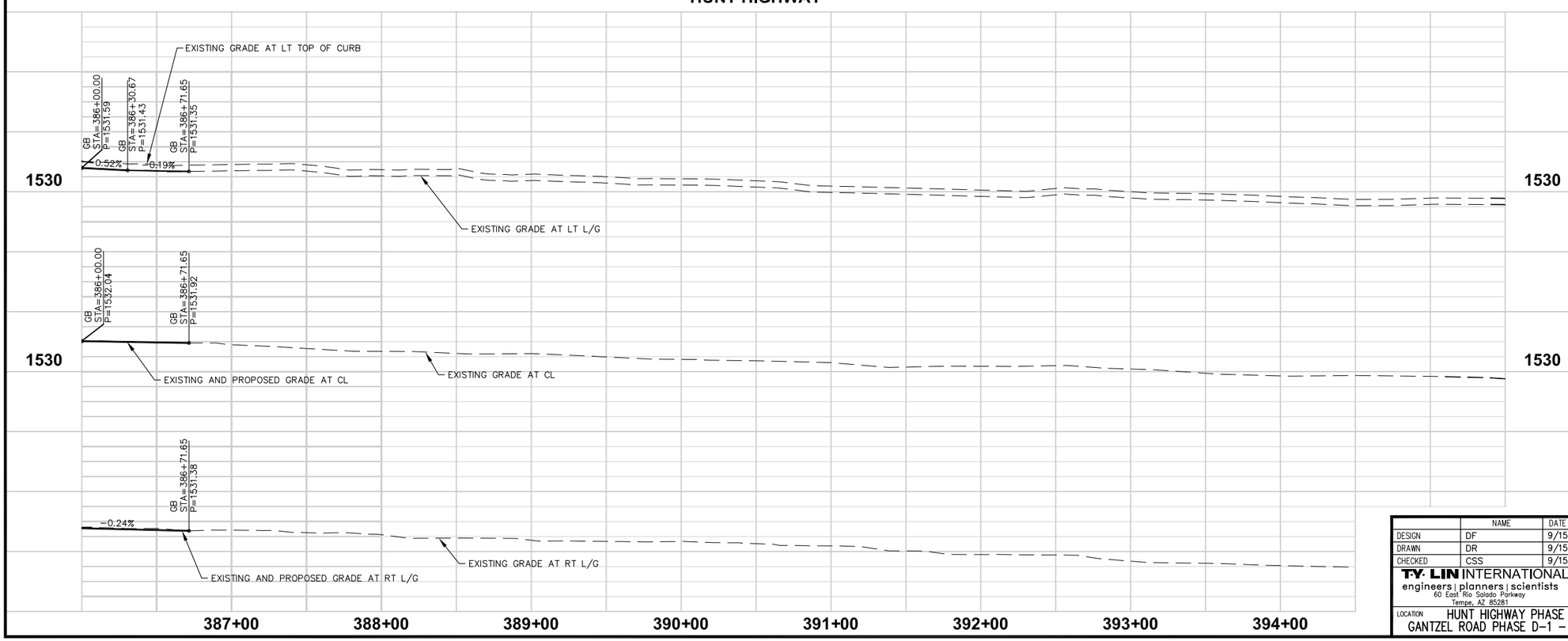
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	4,716 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A	2 EA





NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

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40 0 40 80 120
SCALE: 1" = 40'
VERT: 1" = 4'

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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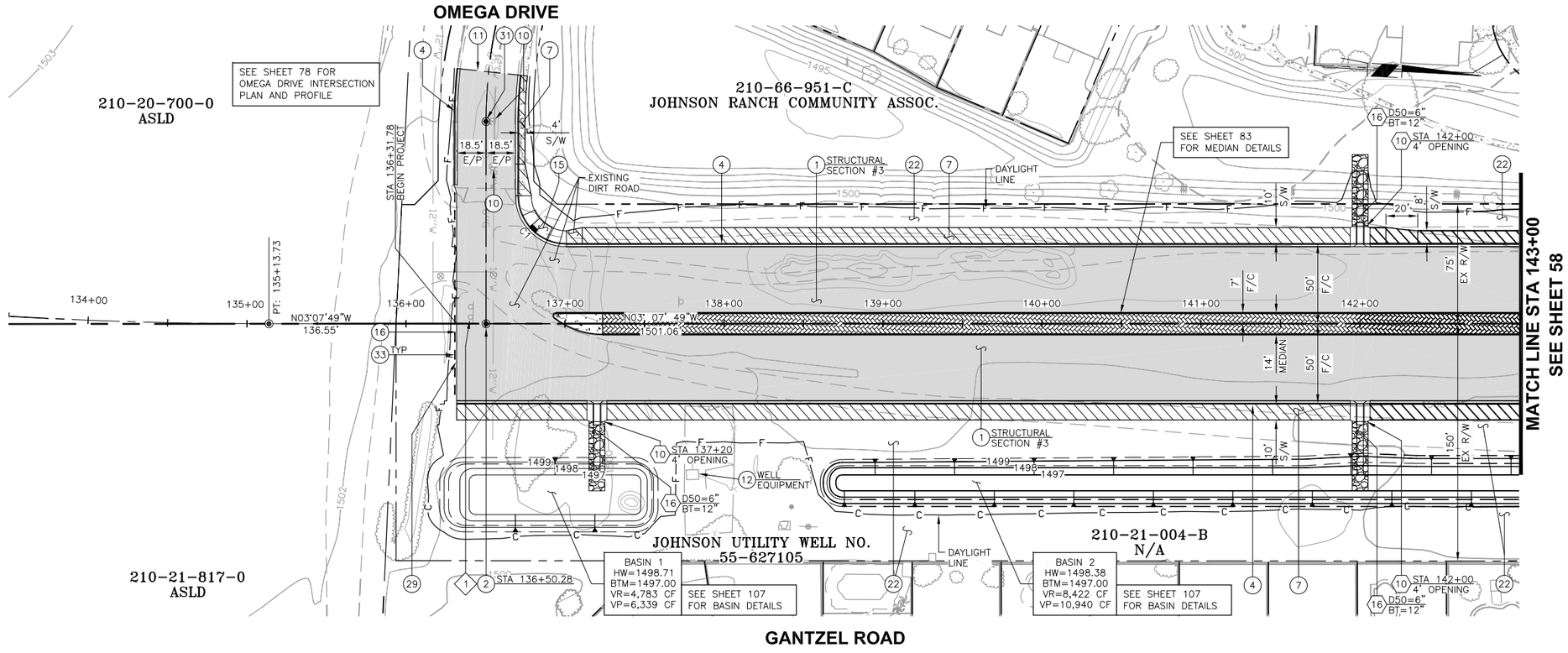
9	AZ	62952173 & 662170001			



PAVING CONSTRUCTION NOTES

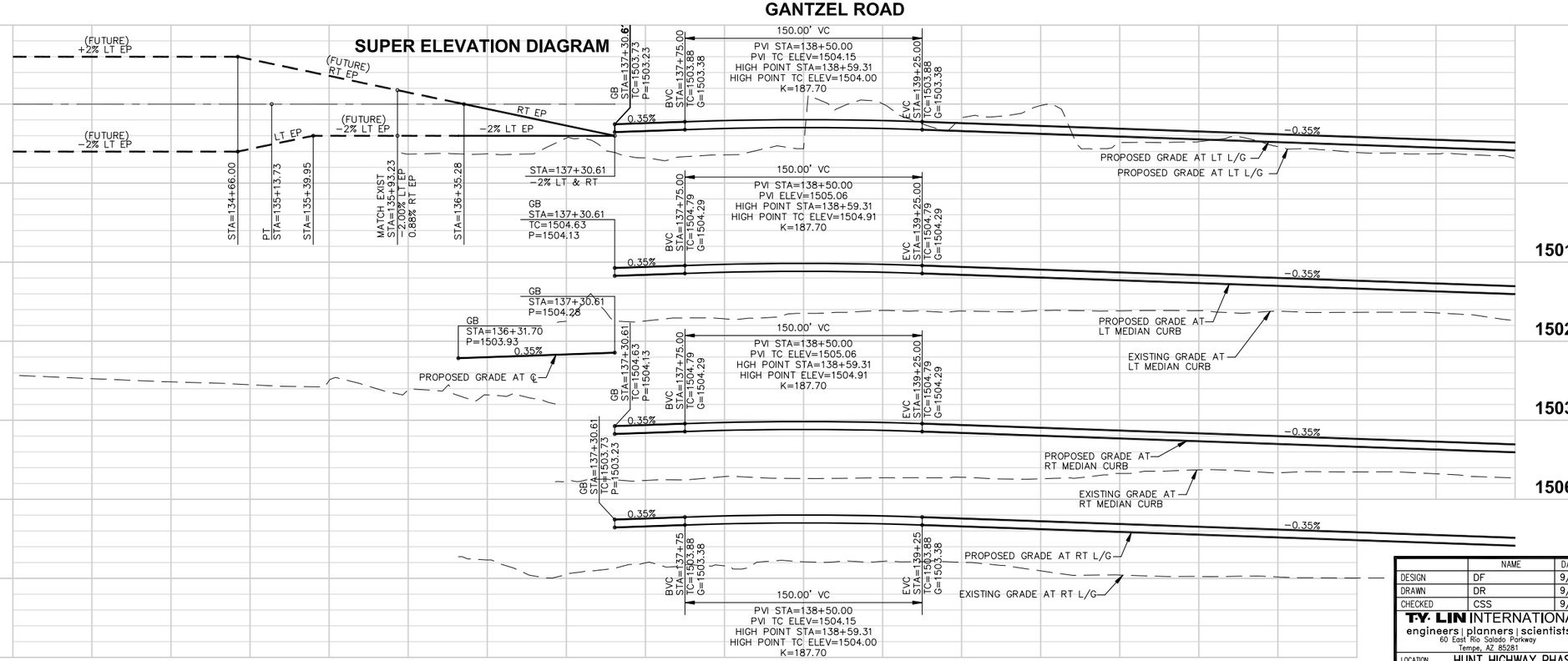
1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	60,676 SF
2	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120–1, TYPE A.	1 EA
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	1,427 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	12,485 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A.	2 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
15	CONSTRUCT SIDEWALK RAMP PER DET ON SHEET 17–30.	358 SF
16	CONSTRUCT THICKENED EDGE TYPE 'A' PER MAG STD DET 201.	NPI
22	FURNISH AND INSTALL 1/2" DECOMPOSED GRANITE 2" MINIMUM DEPTH. COLOR TO BE SANTA FE GOLD.	513 TN
29	CONSTRUCT SAFETY EDGE PER DETAIL ON TYPICAL SECTION SHEETS.	136 LF
31	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120–1, TYPE B.	1 EA
33	FURNISH AND INSTALL BARRICADES PER MAG STD DET 130, TYPE A.	12 EA

REMOVAL / RELOCATE BY OTHERS

1 SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	3 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	60 TN



NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	89°59'57"	30.50'	47.91'	30.50'

NOTE: ALL LINE/CURVE DATA TO FACE OF CURB

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SCALE: 1" = 40'
VERT: 1" = 4'

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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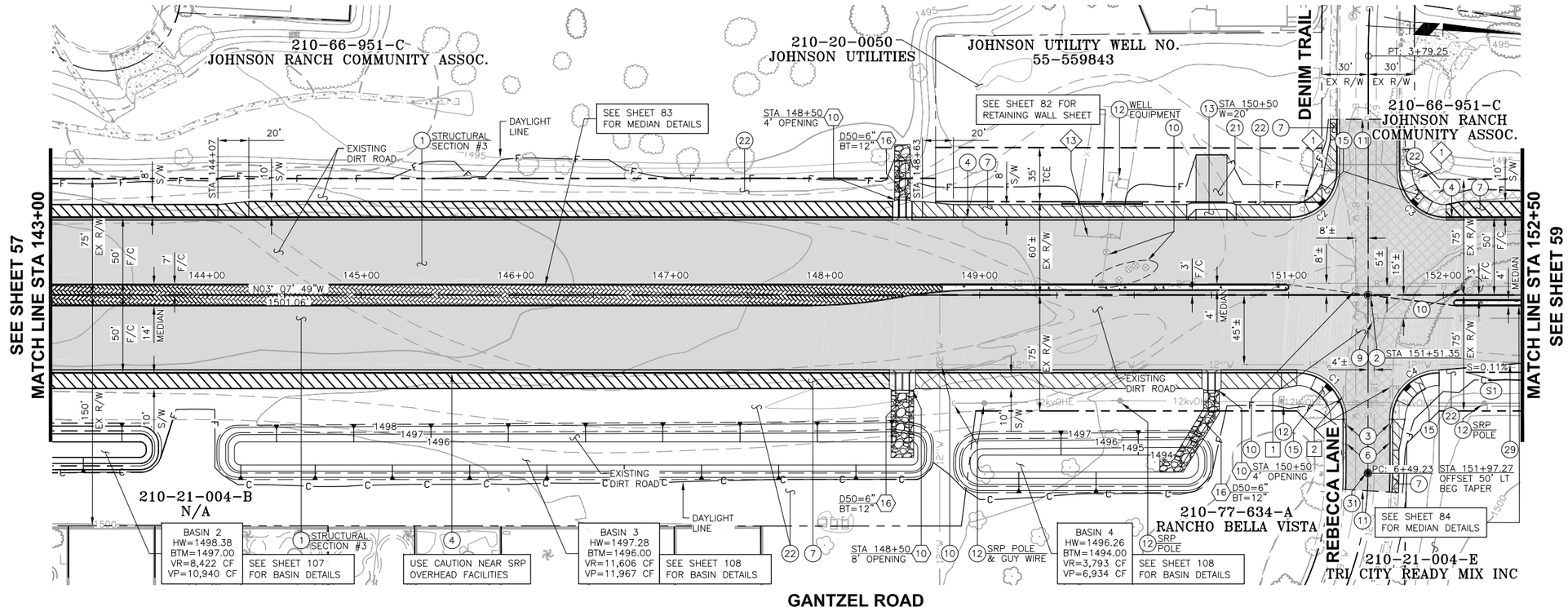

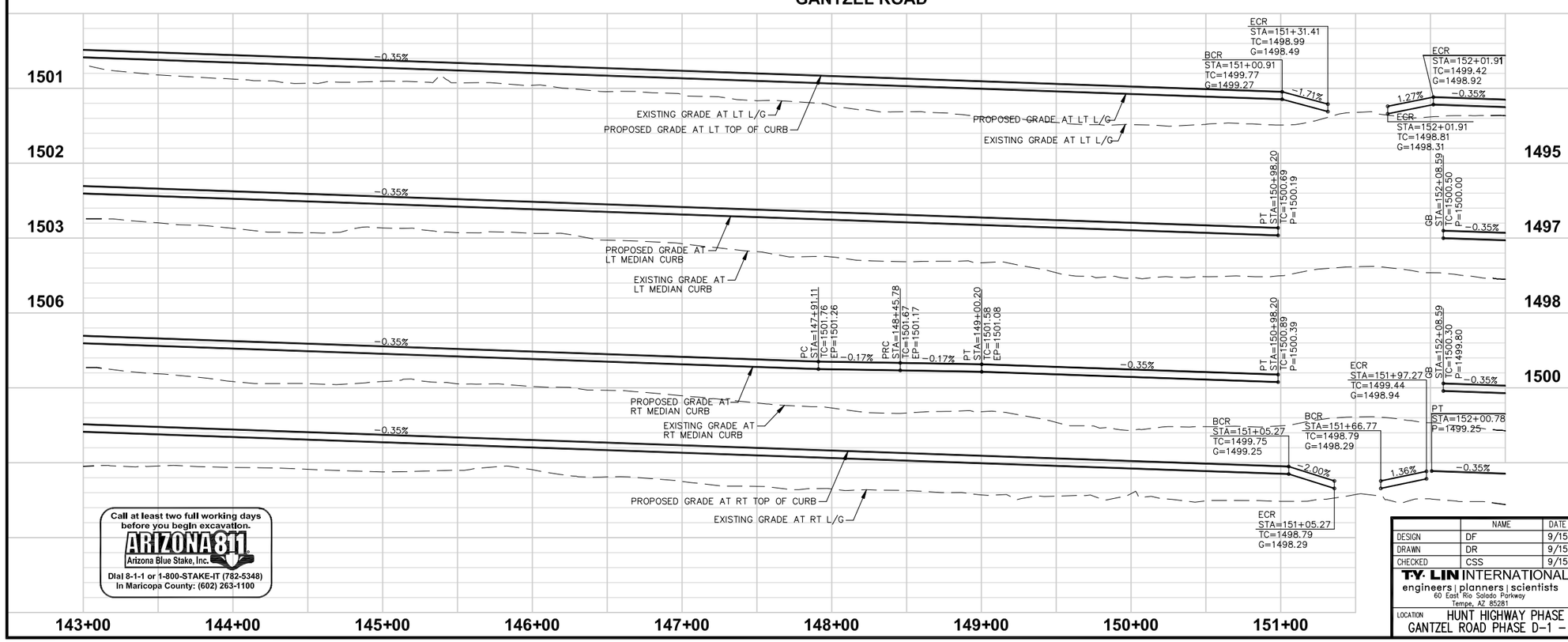

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PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	88,054 SF
2	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120-1, TYPE A.	1 EA
3	CONSTRUCT CURB AND GUTTER TRANSITION TYPE 'A' TO TYPE 'C' PER MAG STD DET 221.	2 EA
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	366 LF
6	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE C.	82 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	15,559 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	1 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	10 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
13	CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DET 250-2, WIDTH PER PLAN.	285 SF
15	CONSTRUCT SIDEWALK RAMP PER DET ON SHEET 17-30.	1,433 SF
21	CONSTRUCT 3" AC DRIVEWAY CONNECTION ON COMPACTED GROUND.	624 SF
22	FURNISH AND INSTALL DECOMPOSED GRANITE 2" MINIMUM DEPTH. COLOR TO BE SANTA FE BROWN.	601 TN
29	CONSTRUCT SAFETY EDGE PER DETAIL ON TYPICAL SECTION SHEETS.	1,517 LF
31	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120-1, TYPE B.	1 EA

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	10,869 SF
2	REMOVE EXISTING CONCRETE CURB.	194 LF

REMOVAL / RELOCATE BY OTHERS

1	SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.
13	CHAINLINK FENCE & GATE TO BE REMOVED BY JOHNSON UTILITIES FORCES.

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	3 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	75 TN

SWALE DATA TABLE

NO.	STATION	ELEVATION	OFFSET
S1	152+14.89	1496.50	50.00' RT

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	90°02'59"	30.50'	47.94'	30.53'
C2	89°57'01"	30.50'	47.88'	30.47'
C3	90°02'59"	30.50'	47.94'	30.53'
C4	89°57'01"	30.50'	47.88'	30.47'

NOTE: ALL LINE/CURVE DATA TO FACE OF CURB

NOTE: FOR STORM DRAIN SEE SHEETS 85-98
NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125
NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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SCALE: 1" = 40'
VERT: 1" = 4'

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DESIGN SECTION

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LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED CIVIL ENGINEER 49279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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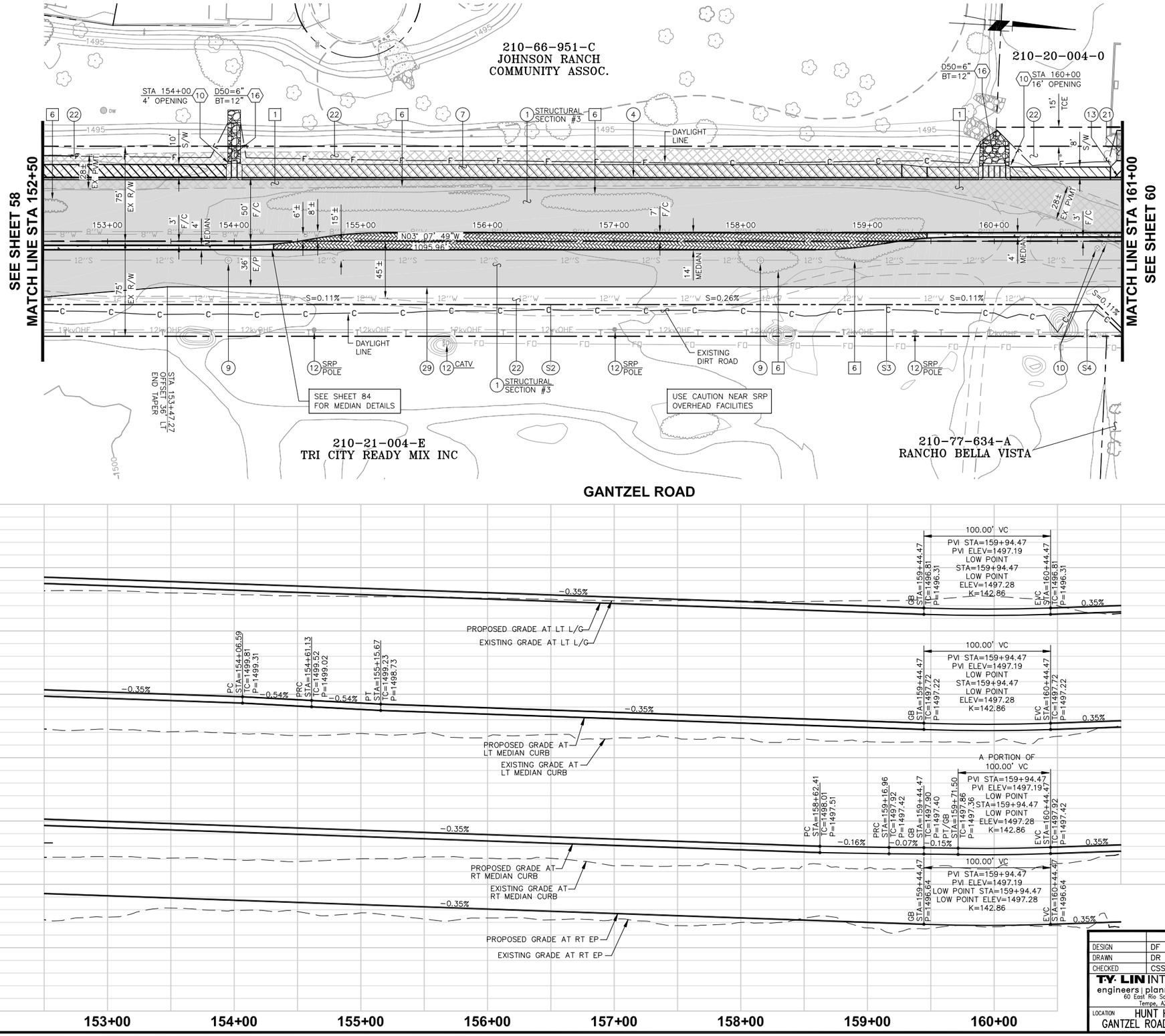

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	63,866 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	812 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	7,747 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	2 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A.	2 EA
12	PROTECT IN PLACE.	N.P.I.
13	CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DET 250–2, WIDTH PER PLAN.	96 SF
21	CONSTRUCT 3" AC DRIVEWAY CONNECTION ON COMPACTED GROUND.	79 SF
22	FURNISH AND INSTALL DECOMPOSED GRANITE 2" MINIMUM DEPTH. COLOR TO BE SANTA FE BROWN.	334 TN
29	CONSTRUCT SAFETY EDGE PER DETAIL ON TYPICAL SECTION SHEETS.	850 LF

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	24,160 SF
6	EXISTING TREE/BUSH REMOVED AS PART OF ROADWAY CLEARING AND GRUBBING	N.P.I.

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	2 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	45 TN

SWALE DATA TABLE

NO.	STATION	ELEVATION	OFFSET
S2	156+49.89	1496.00	50.00' RT
S3	159+14.89	1495.32	50.00' RT
S4	160+31.91	1495.04	50.00' RT

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NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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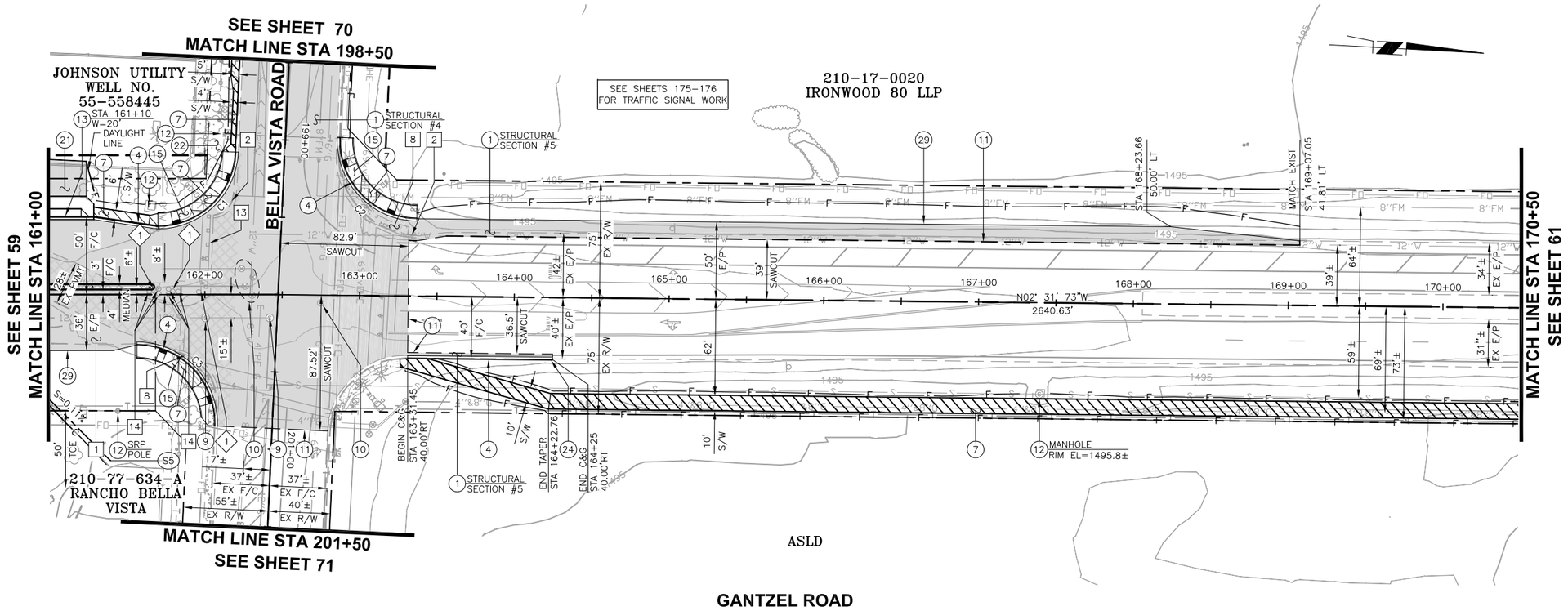

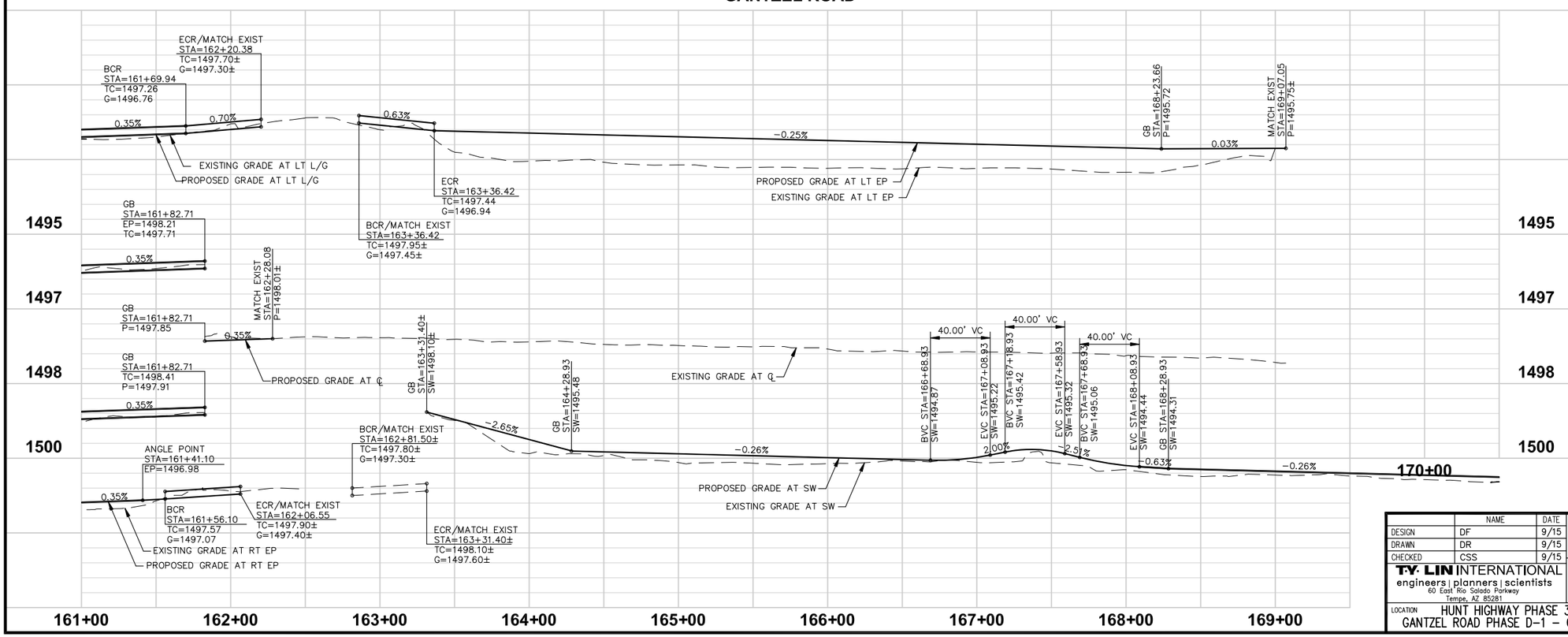

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	37,443 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	309 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	8,204 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	2 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	5 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
13	CONSTRUCT CONCRETE DRIVEWAY PER MAG STD DET 250-2, WIDTH PER PLAN.	356 SF
15	CONSTRUCT SIDEWALK RAMP PER DET ON SHEET 17-30.	1,962 SF
21	CONSTRUCT 3" AC DRIVEWAY CONNECTION ON COMPACTED GROUND.	543 SF
22	FURNISH AND INSTALL DECOMPOSED GRANITE 2" MINIMUM DEPTH. COLOR TO BE SANTA FE BROWN.	45 TN
24	CURB TERMINATION PER MODIFIED MAG STD DET 222 ON SHEET 34.	1 EA
29	CONSTRUCT SAFETY EDGE PER DETAIL ON TYPICAL SECTION SHEETS.	628 LF

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	6,911 SF
2	REMOVE EXISTING CONCRETE CURB.	78 LF
8	REMOVE EXISTING SIDEWALK RAMP.	2 EA
13	REMOVE TRAFFIC BARRICADE.	47 LF
14	REMOVE TRAFFIC BARRELS.	6 EA

REMOVAL / RELOCATE BY OTHERS

1 SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.

SWALE DATA TABLE

NO.	STATION	ELEVATION	OFFSET
S5	161+39.91	1495.04	107.21' RT

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	87°18'28"	50.50'	76.95'	48.18'
C2	91°41'13"	50.50'	80.81'	52.01'
C3	92°33'54"	50.50'	81.59'	52.81'

NOTE: ALL LINE/CURVE DATA TO FACE OF CURB

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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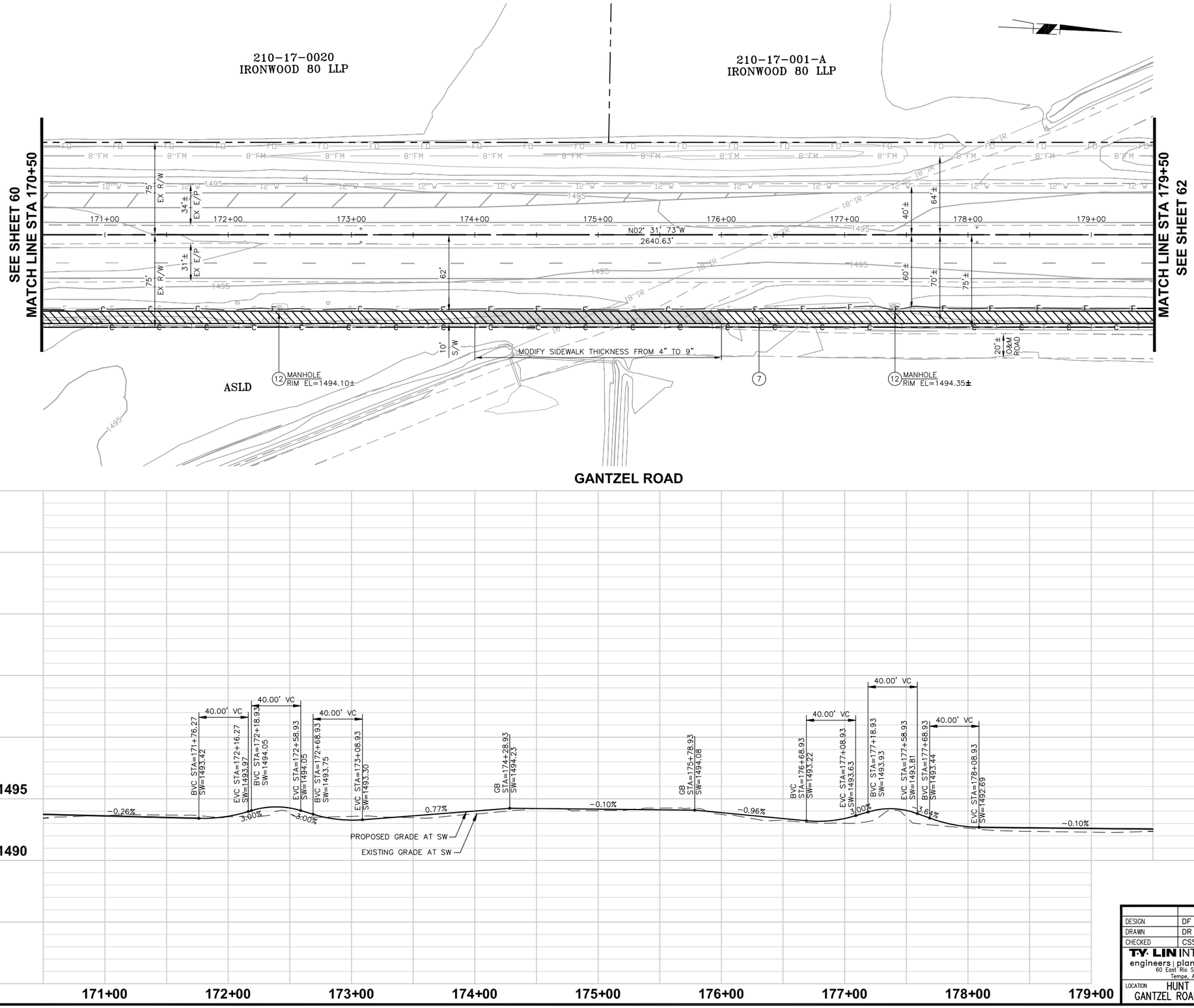
PAVING CONSTRUCTION NOTES

(7) CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN. — 9,000 SF

(12) PROTECT IN PLACE. — N.P.I.

MODIFY SIDEWALK THICKNESS FROM 4" TO 9" BETWEEN STA 174+00 AND STA 176+00



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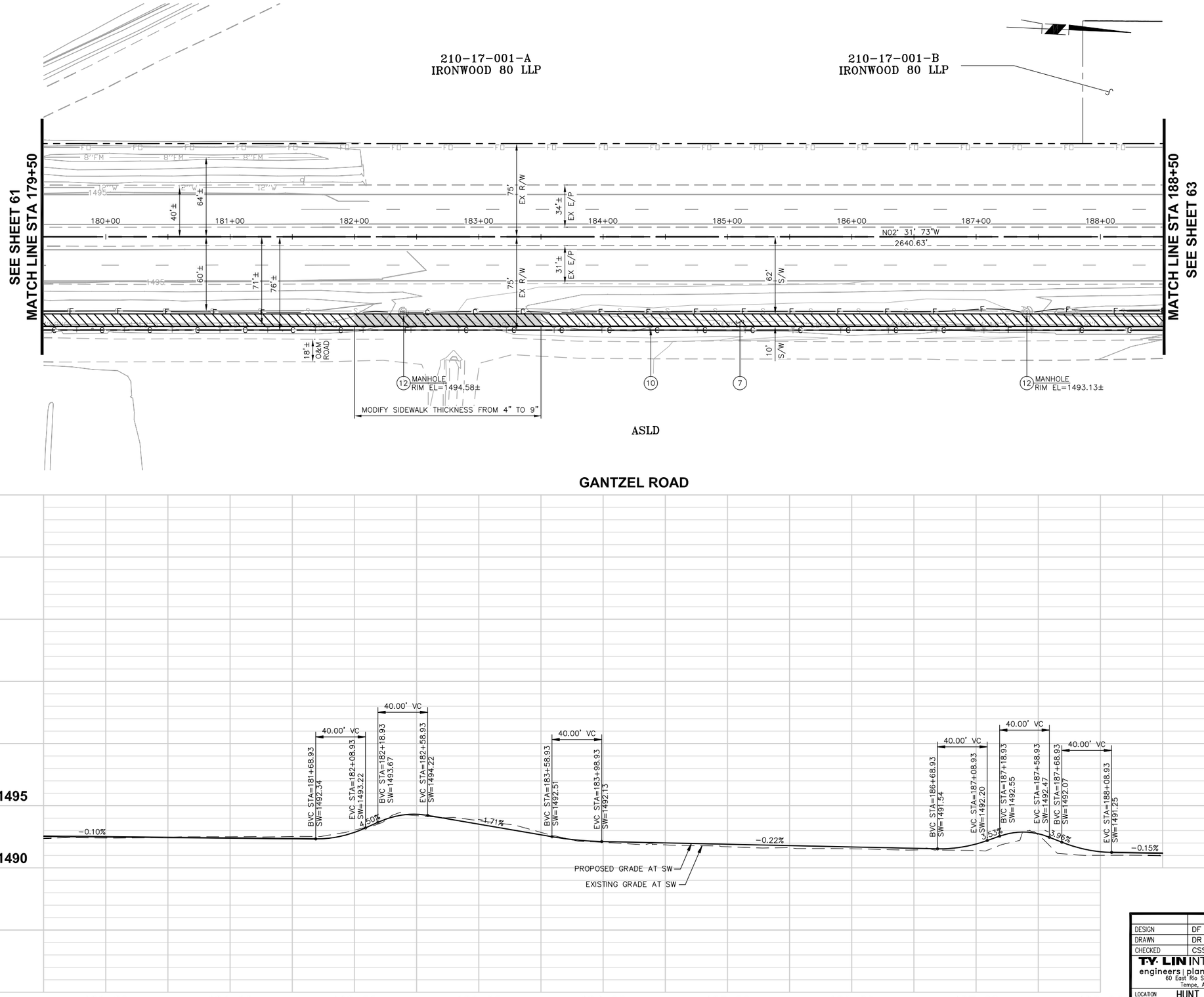
PAVING CONSTRUCTION NOTES

7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	9,000 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	1 EA
12	PROTECT IN PLACE.	N.P.I.

MODIFY SIDEWALK THICKNESS FROM 4" TO 9" BETWEEN STA 182+00 AND STA 183+50



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SHEET 62 OF 176

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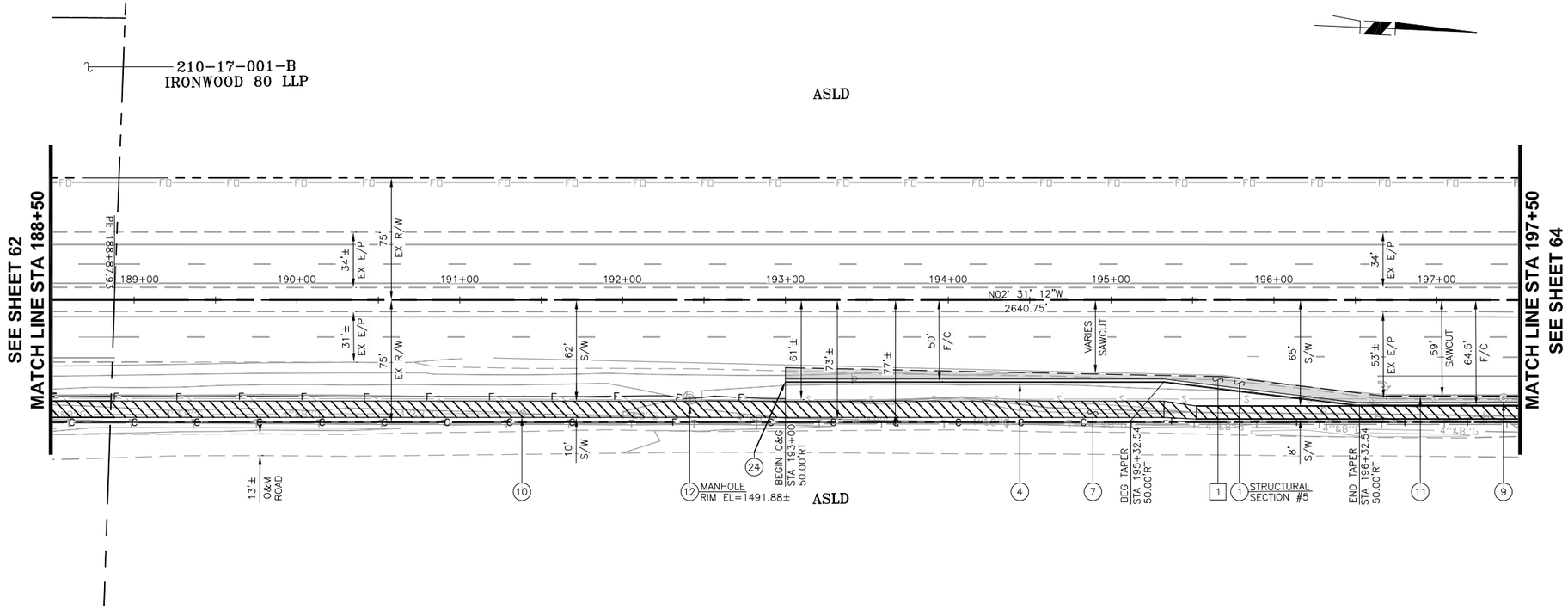
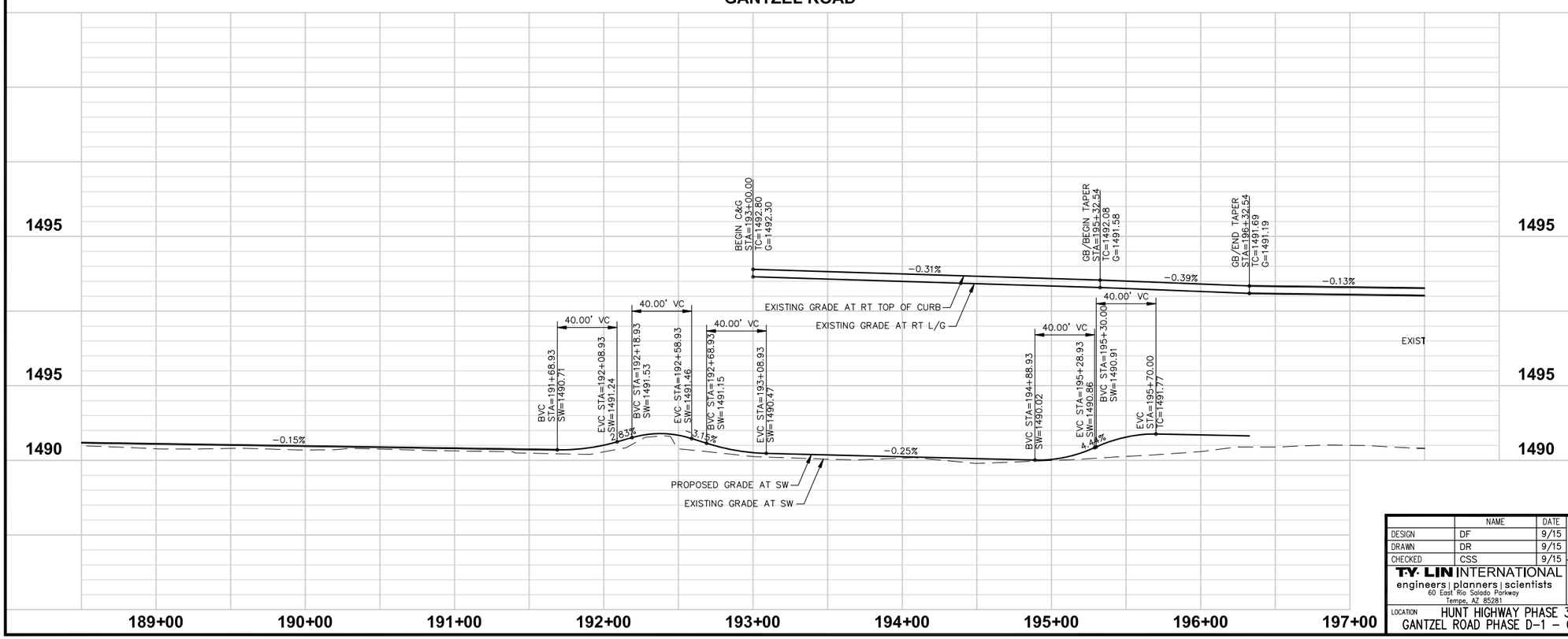
9	AZ	62952173 & 662170001			





PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	2,130 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	200 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	8,585 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	1 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	1 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
24	CURB TERMINATION PER MODIFIED MAG STD DET 222 ON SHEET 34.	1 EA

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	341 SF

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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PAVING PLAN AND PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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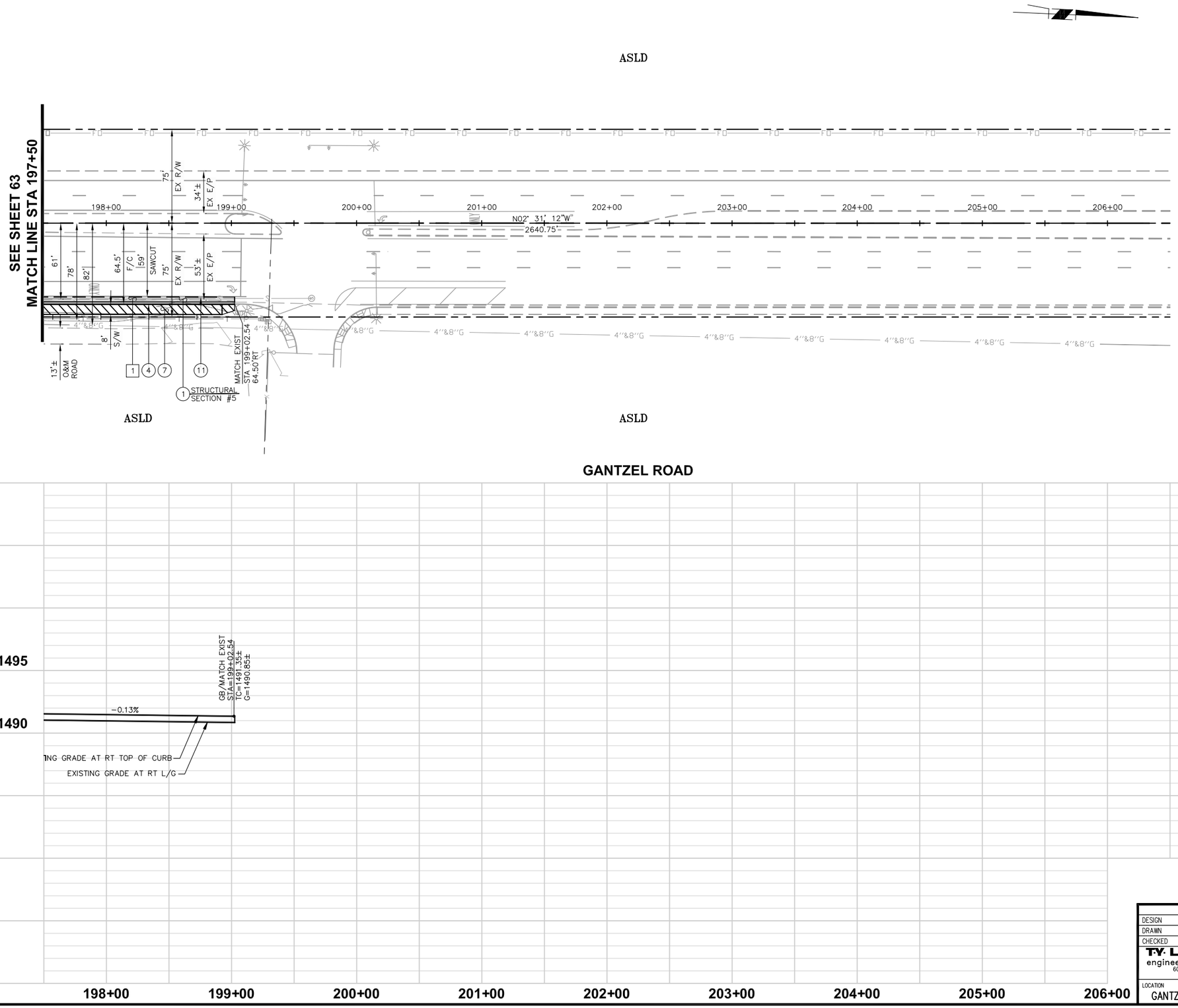
9	AZ	62952173 & 662170001			

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	610 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	153 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	1,204 SF
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	326 SF



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NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

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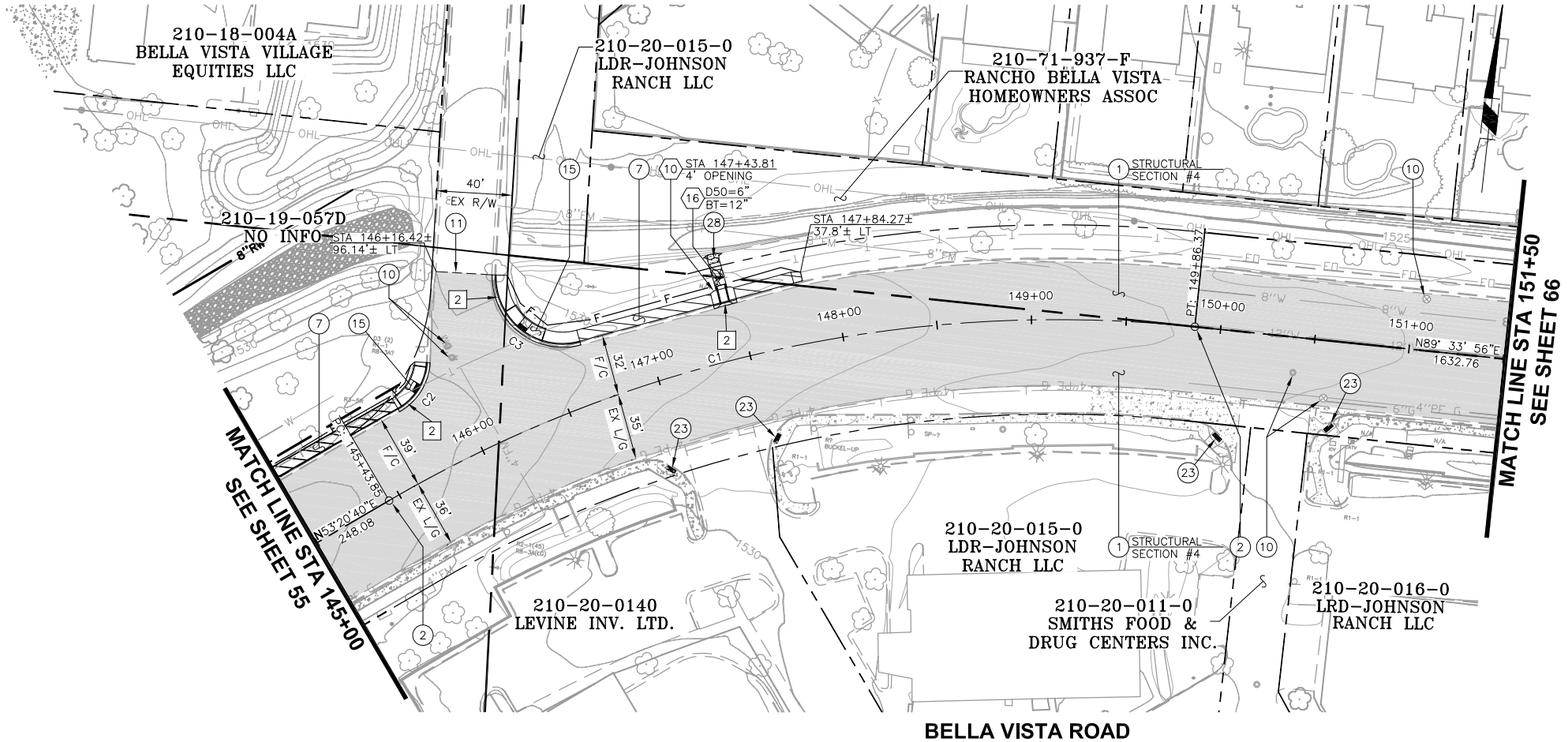

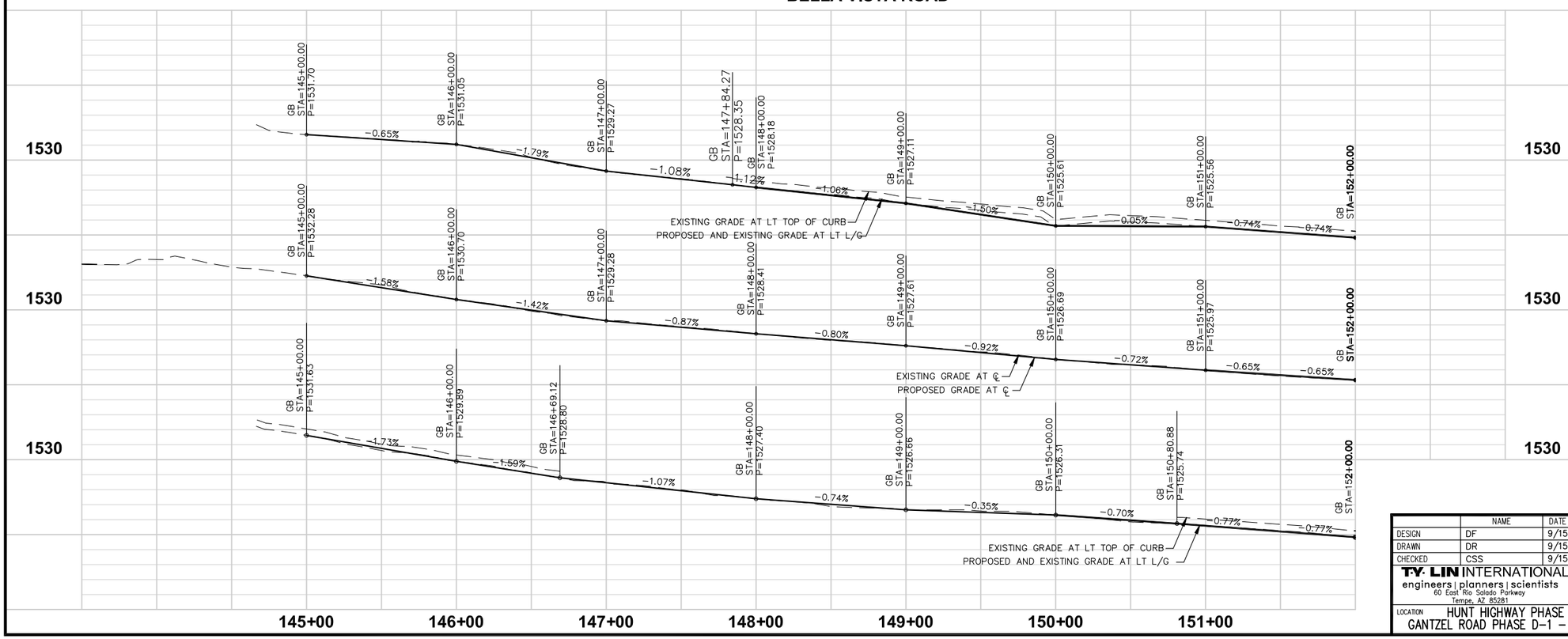

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	45,658 SF
2	FURNISH AND INSTALL SURVEY MARKER PER MAG STD DET 120–1, TYPE A.	2 EA
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	1,086 SF
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A.	5 EA
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
15	CONSTRUCT SIDEWALK RAMP PER DET ON SHEET 17–30.	542 SF
23	FURNISH INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	40 SF
28	AC OVERLAY PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	1 EA

REMOVAL / RELOCATE NOTES

2	REMOVE EXISTING CONCRETE CURB.	111 LF

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	3 TN

NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	36°10'51"	700.00'	442.03'	228.67'
C2	56°46'25"	30.50'	30.22'	16.48'
C3	107°05'06"	35.50'	66.35'	48.05'

NOTE: ALL LINE/CURVE DATA TO FACE OF CURB

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Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 12/31/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

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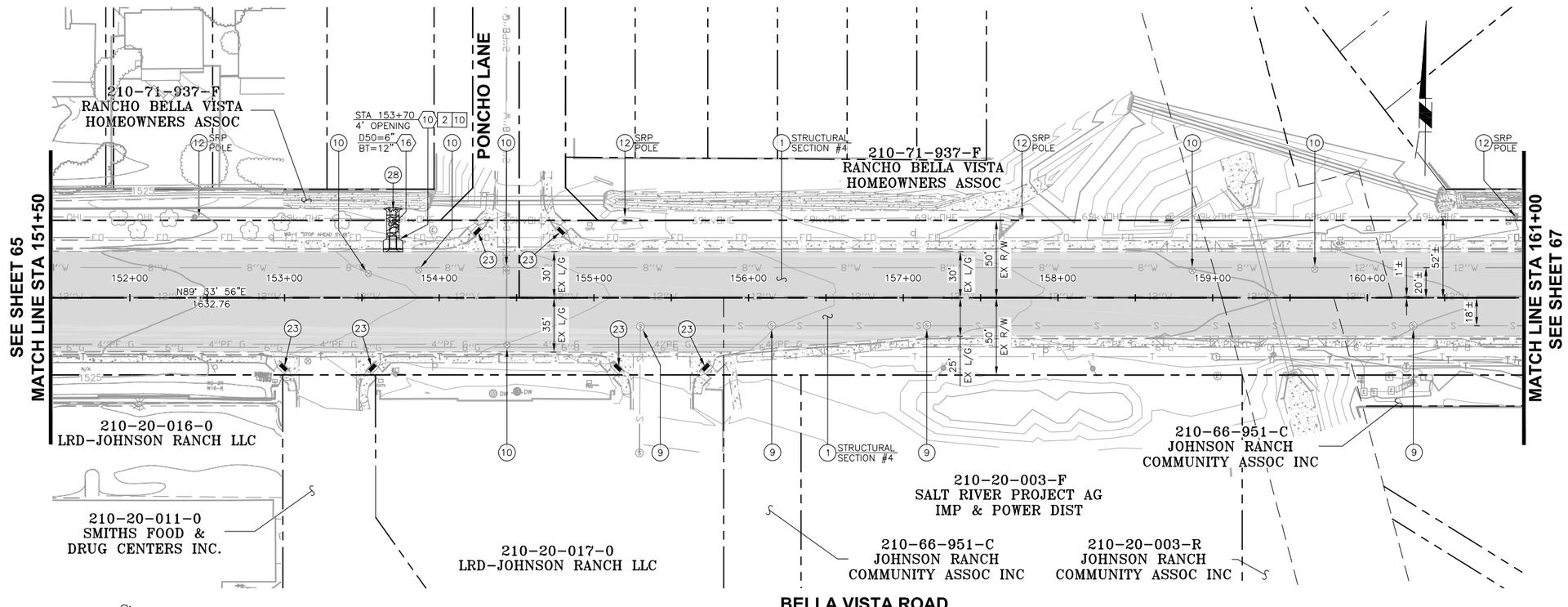

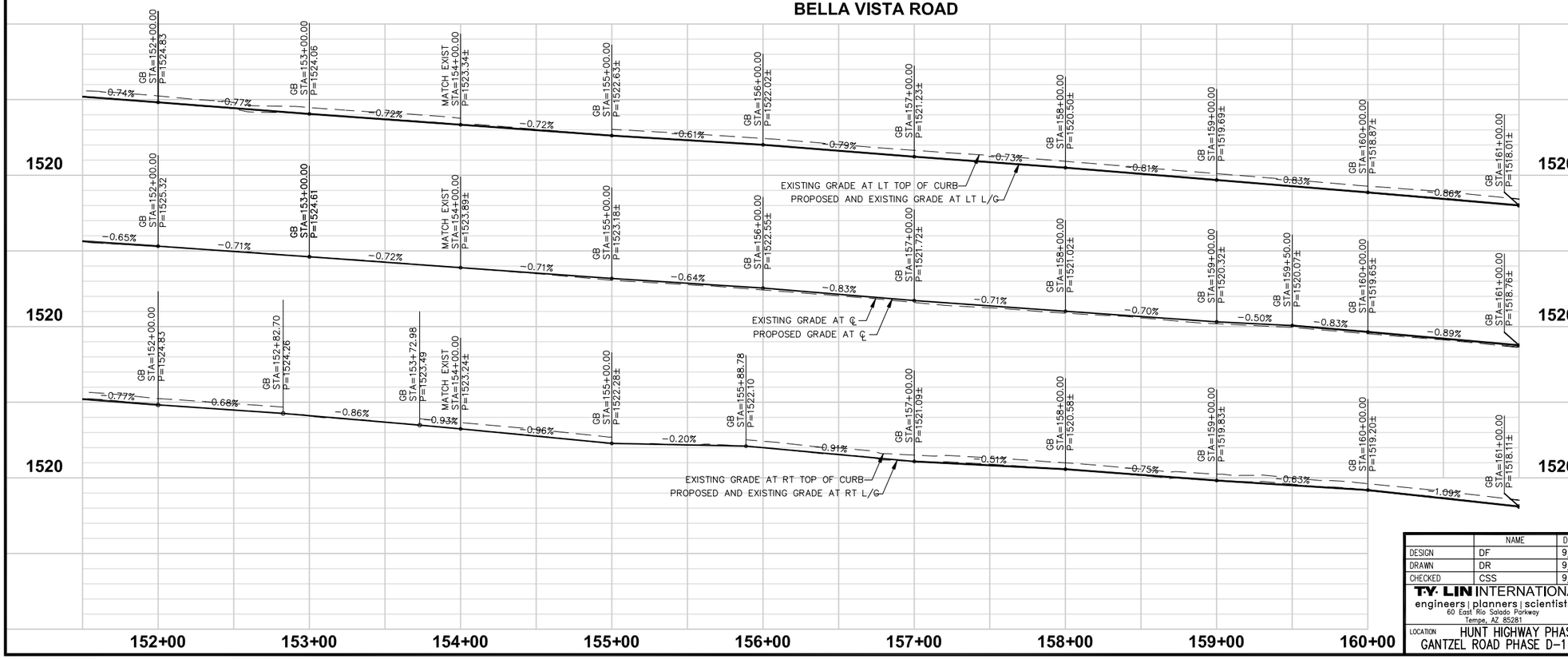

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	57,037 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	4 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	6 EA
12	PROTECT IN PLACE.	N.P.I.
23	FURNISH INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	60 SF
28	CONCRETE SPILLWAY PER DETAIL ON SHEET 31.	1 EA

REMOVAL / RELOCATE NOTES

2	REMOVE EXISTING CONCRETE CURB.	13 LF
10	REMOVE EXISTING SIDEWALK.	65 SF

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	5 TN

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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REGISTERED CIVIL ENGINEER
48279
CARLOS SANCHEZ SORIA
Date Signed 9/2/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 66 OF 176

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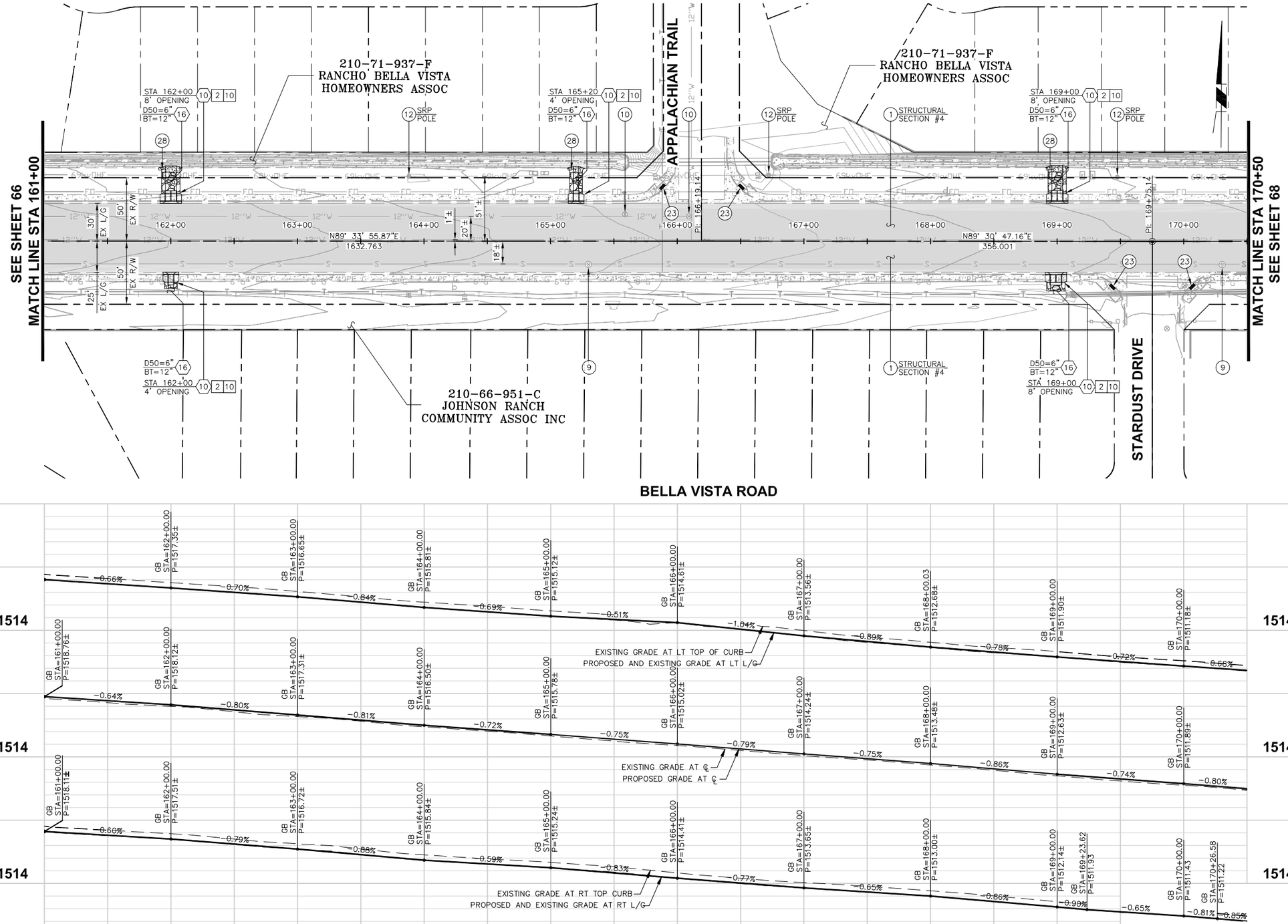

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	51,918 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	2 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391–1, TYPE A.	2 EA
12	PROTECT IN PLACE.	N.P.I.
23	FURNISH INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	40 SF
28	CONCRETE SPILLWAY PER DETAIL ON SHEET 31.	3 EA

REMOVAL / RELOCATE NOTES

2	REMOVE EXISTING CONCRETE CURB.	77 LF
10	REMOVE EXISTING SIDEWALK.	385 SF

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	5 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	33 TN

NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

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Registered Professional Engineer (Civil)
CERTIFICATE NO. 48279
CARLOS SANCHEZ SORIA
Date Signed 9/2/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

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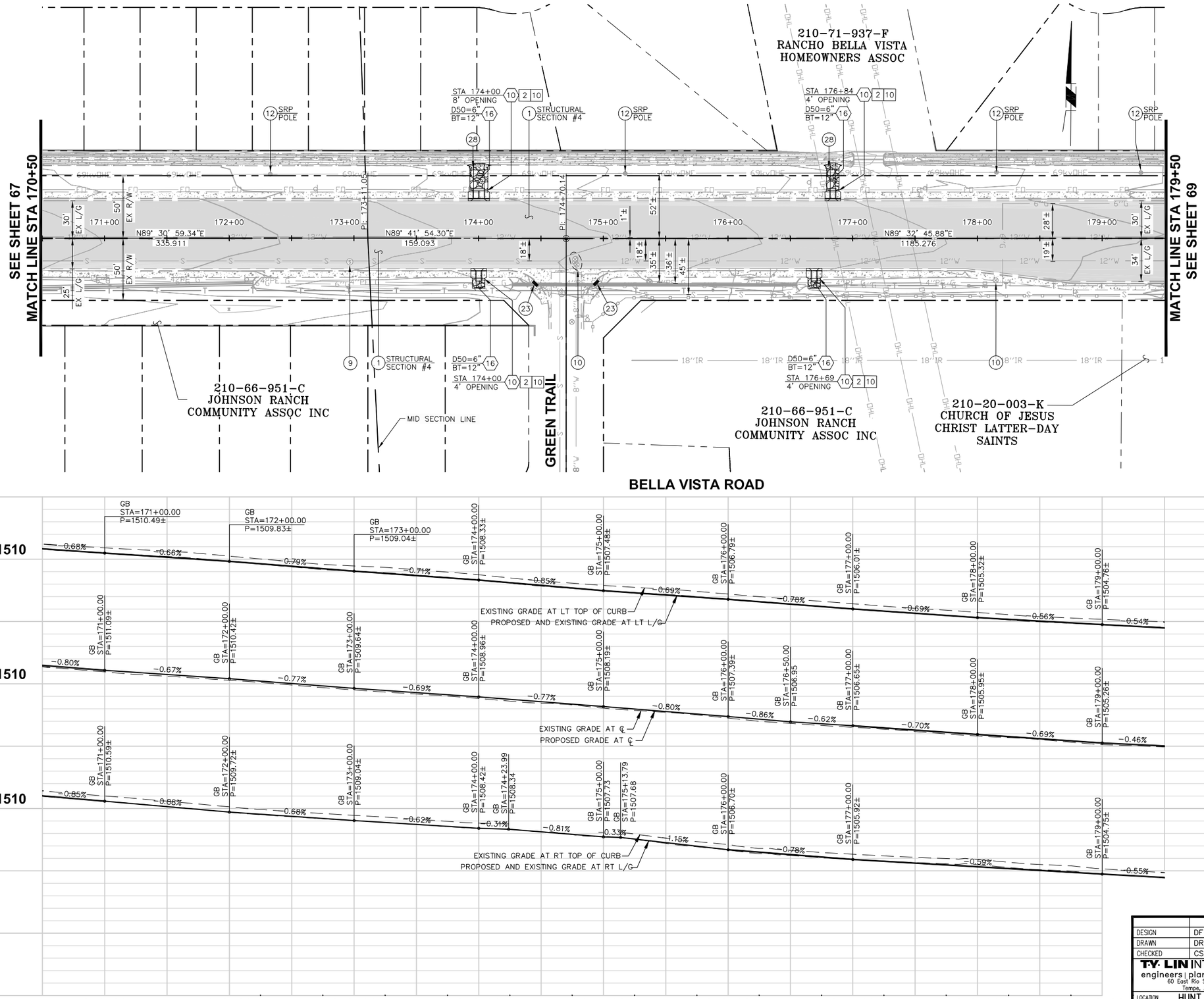

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	50,244 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	1 EA
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	5 EA
12	PROTECT IN PLACE.	N.P.I.
23	FURNISH INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	20 SF
28	CONCRETE SPILLWAY PER DETAIL ON SHEET 31.	2 EA

REMOVAL / RELOCATE NOTES

2	REMOVE EXISTING CONCRETE CURB.	56 LF
10	REMOVE EXISTING SIDEWALK.	280 SF

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	4 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	24 TN

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/2/15 ARIZONA, U.S.A. Expires 9/30/17

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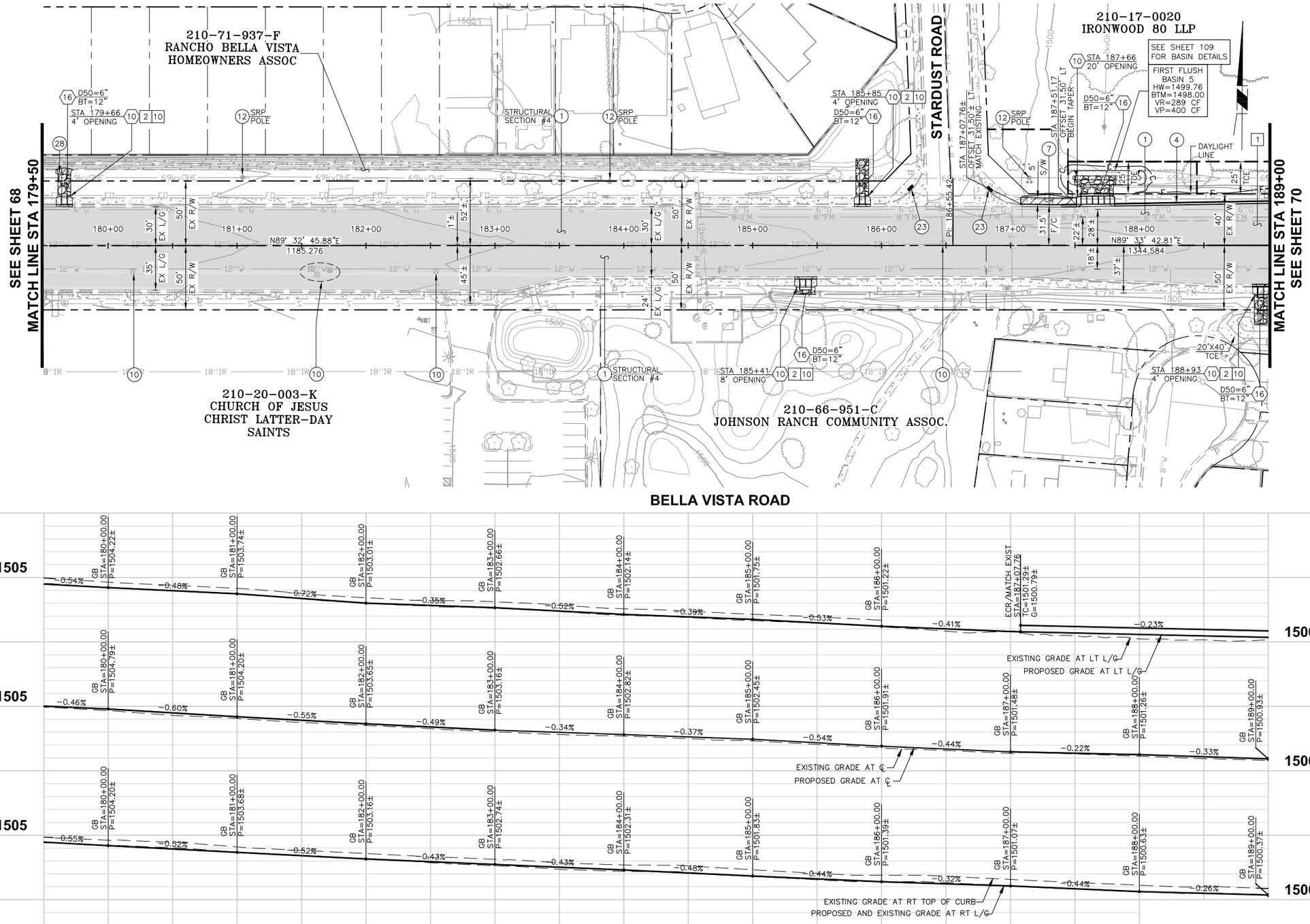

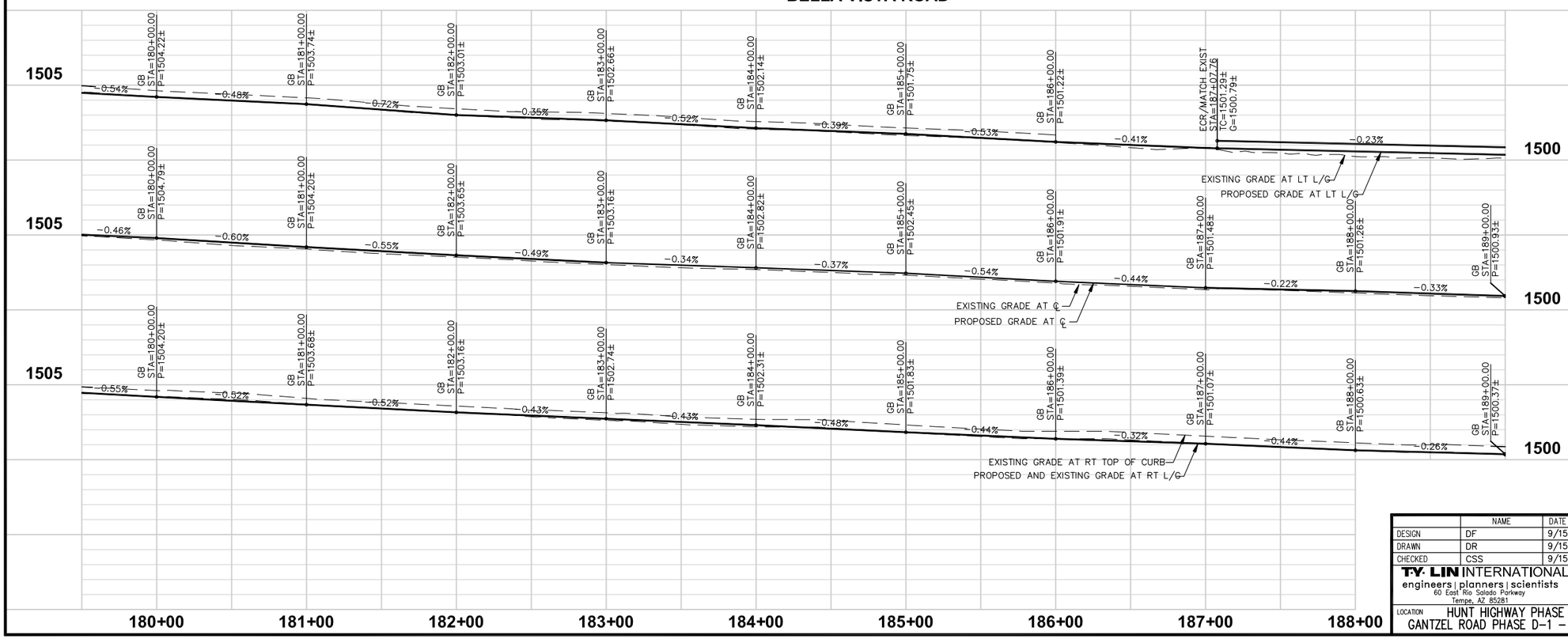

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PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	60,194 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	163 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	
10	ADJUST VALVE COVER TO FINISHED GRADE PER MAG STD DET 391-1, TYPE A.	6 EA
12	PROTECT IN PLACE.	N.P.I.
23	FURNISH INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	20 SF
28	CONCRETE SPILLWAY PER DETAIL ON SHEET 31.	2 EA

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	834 SF
2	REMOVE EXISTING CONCRETE CURB.	43 LF
10	REMOVE EXISTING SIDEWALK.	215 SF

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	6 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	53 TN

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

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LOCATION: HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
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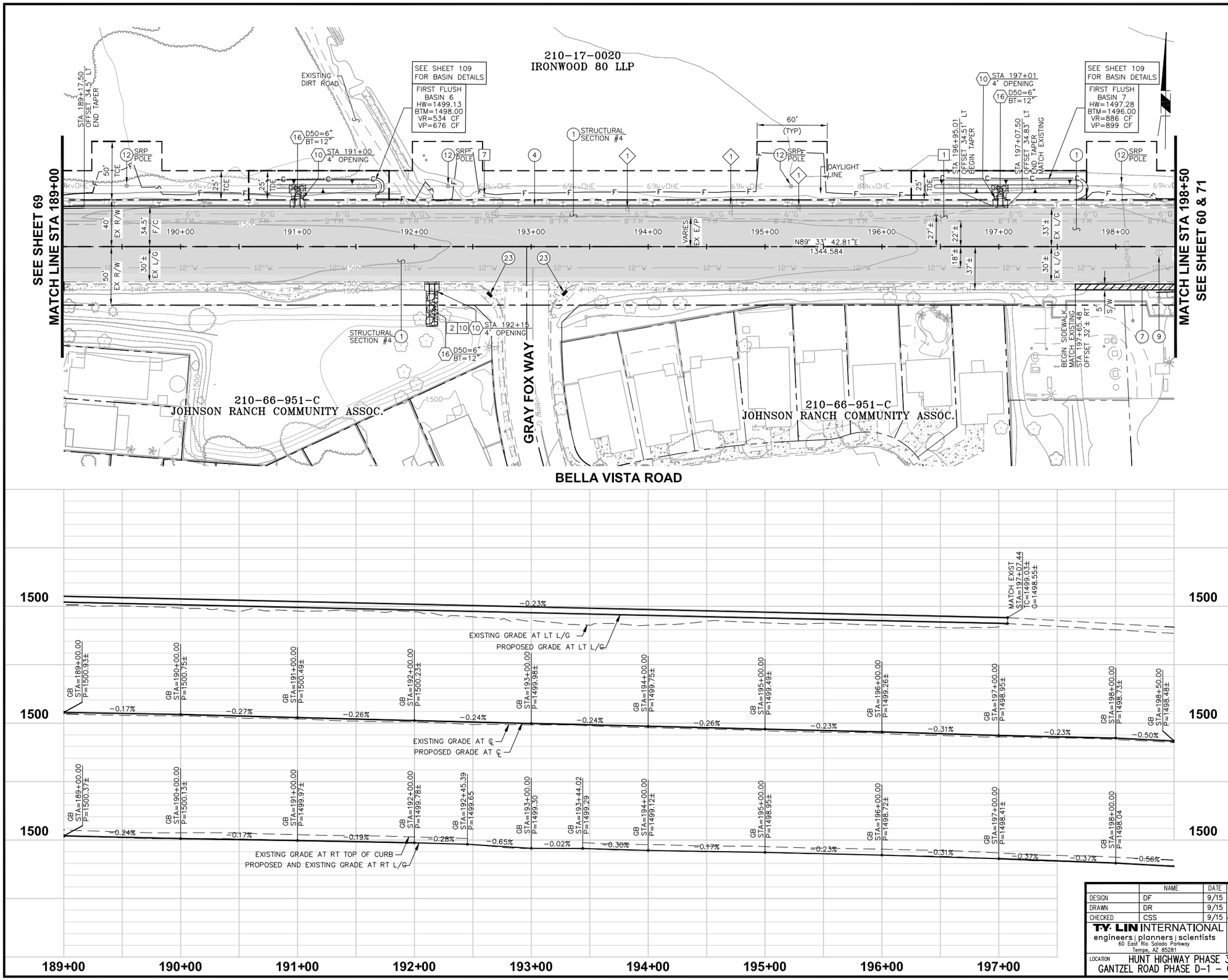

PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	59,893 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	783 LF
7	CONSTRUCT CONCRETE SIDEWALK PER MAG STD DET 230. WIDTH PER PLAN.	423 SF
9	ADJUST SEWER MANHOLE FRAME AND COVER PER MAG STD DET 422.	1 EA
12	PROTECT IN PLACE.	N.P.I.
23	FURNISH INSTALL TRUNCATED DOMES FOR EXISTING SIDEWALK RAMPS.	20 SF

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	4,308 SF
2	REMOVE EXISTING CONCRETE CURB.	13 LF
10	REMOVE EXISTING SIDEWALK.	65 SF

REMOVAL / RELOCATE BY OTHERS

1 SEE SIGNING AND STRIPING PLANS FOR REMOVAL/ RELOCATION OF STREET SIGNS.

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	3 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	27 TN

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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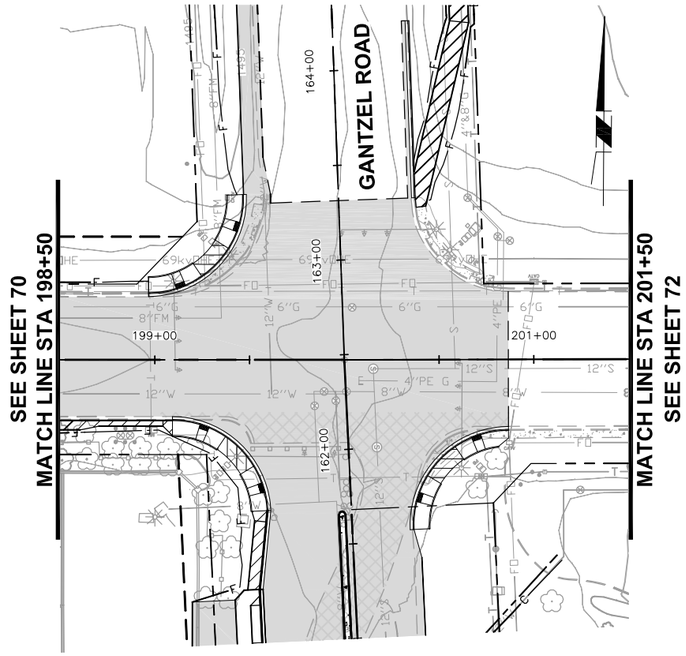
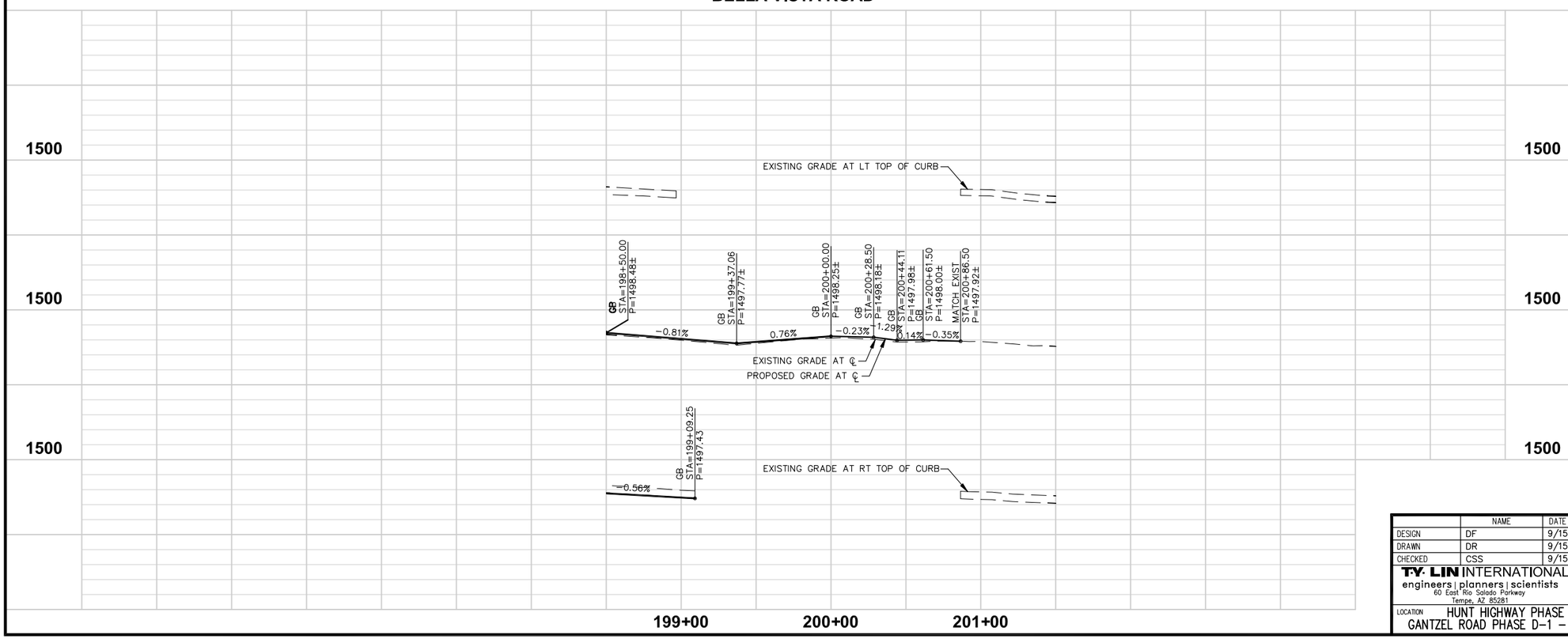
9	AZ	62952173 & 662170001			

THIS SHEET FOR PROFILE INFORMATION ONLY. CONSTRUCTION NOTES & QUANTITIES SHOWN ON SHEET 60.



BELLA VISTA ROAD



NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

Call at least two full working days before you begin excavation.
ARIZONA 811
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In Maricopa County: (602) 263-1100

40 0 40 80 120

SCALE: 1" = 40'
VERT: 1" = 4'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

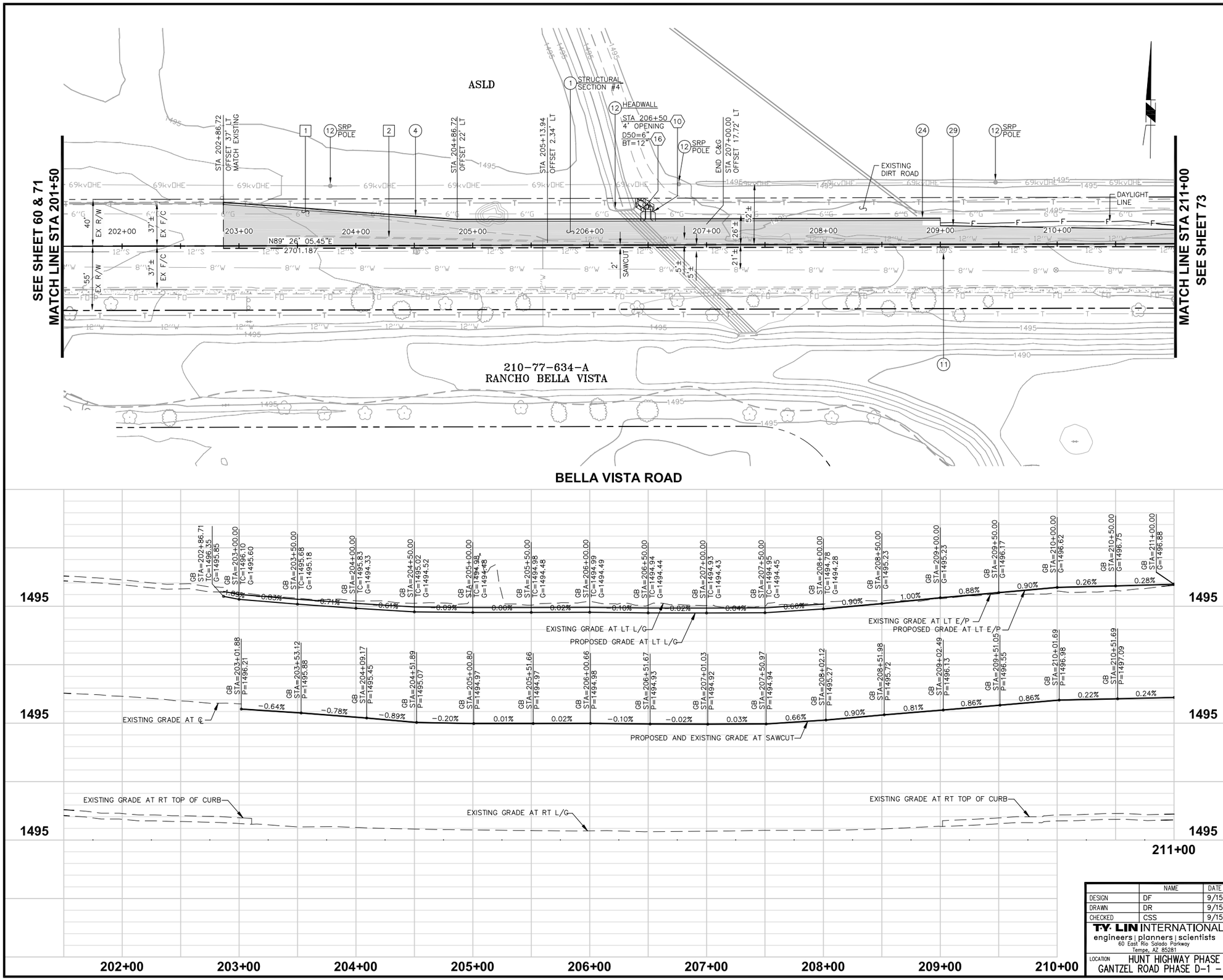
Registered Professional Engineer (Civil)
CERTIFICATE NO. 48279
CARLOS SANCHEZ SORIA
Date Signed 9/2/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 71 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Paving\2170001_57-73_PH1_Paving.dwg 9/2/2015 8:14:41 AM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43–44 FOR QUANTITIES.	18,392 SF
4	CONSTRUCT CURB & GUTTER PER MAG STD DET 220, TYPE A, H=6".	414 LF
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
24	CURB TERMINATION PER MAG STD DET 222.	1 EA
29	CONSTRUCT SAFETY EDGE PER DETAIL ON TYPICAL SECTION SHEETS.	400 LF

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	2,902 SF
2	REMOVE EXISTING CONCRETE CURB.	555 LF

STORM DRAIN CONST. NOTES

10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206.	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	6 TN

NOTE: FOR STORM DRAIN SEE SHEETS 85–98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112–125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74–80

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40 0 40 80 120
SCALE: 1" = 40'
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ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

LOCATION: HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/2/15 ARIZONA, U.S.A. Expires 9/30/17

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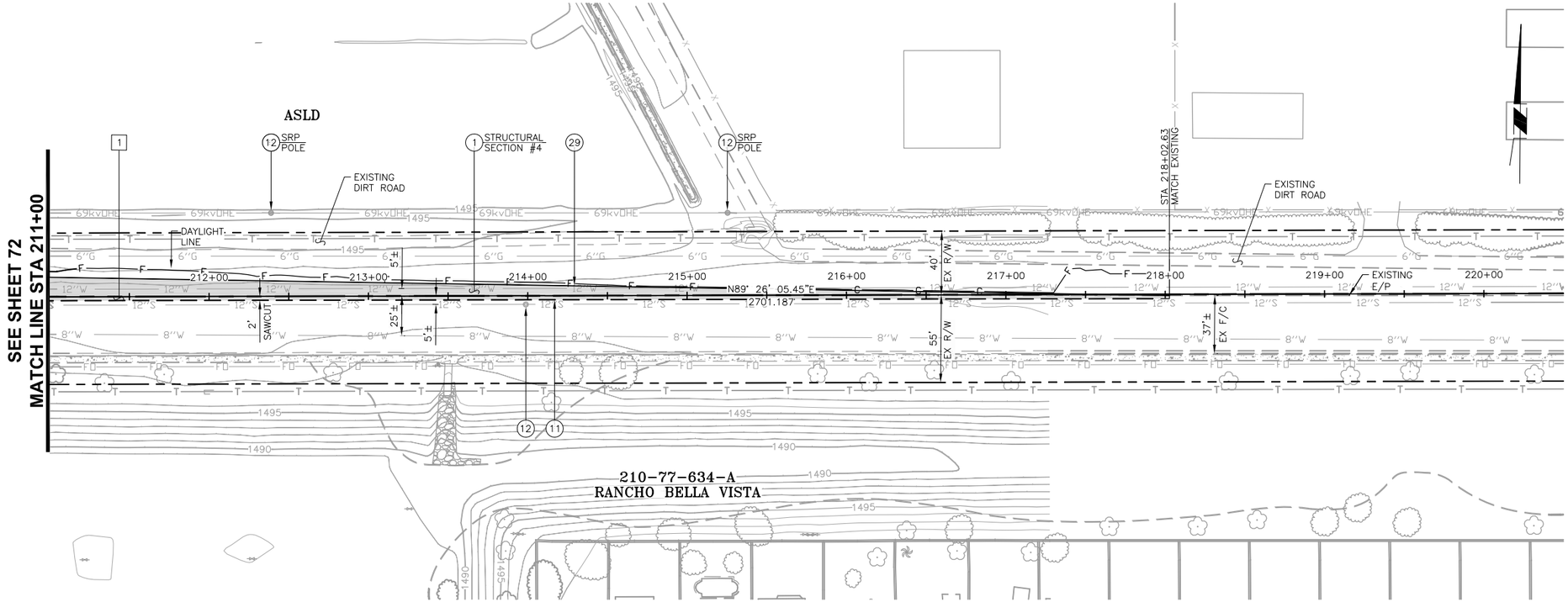
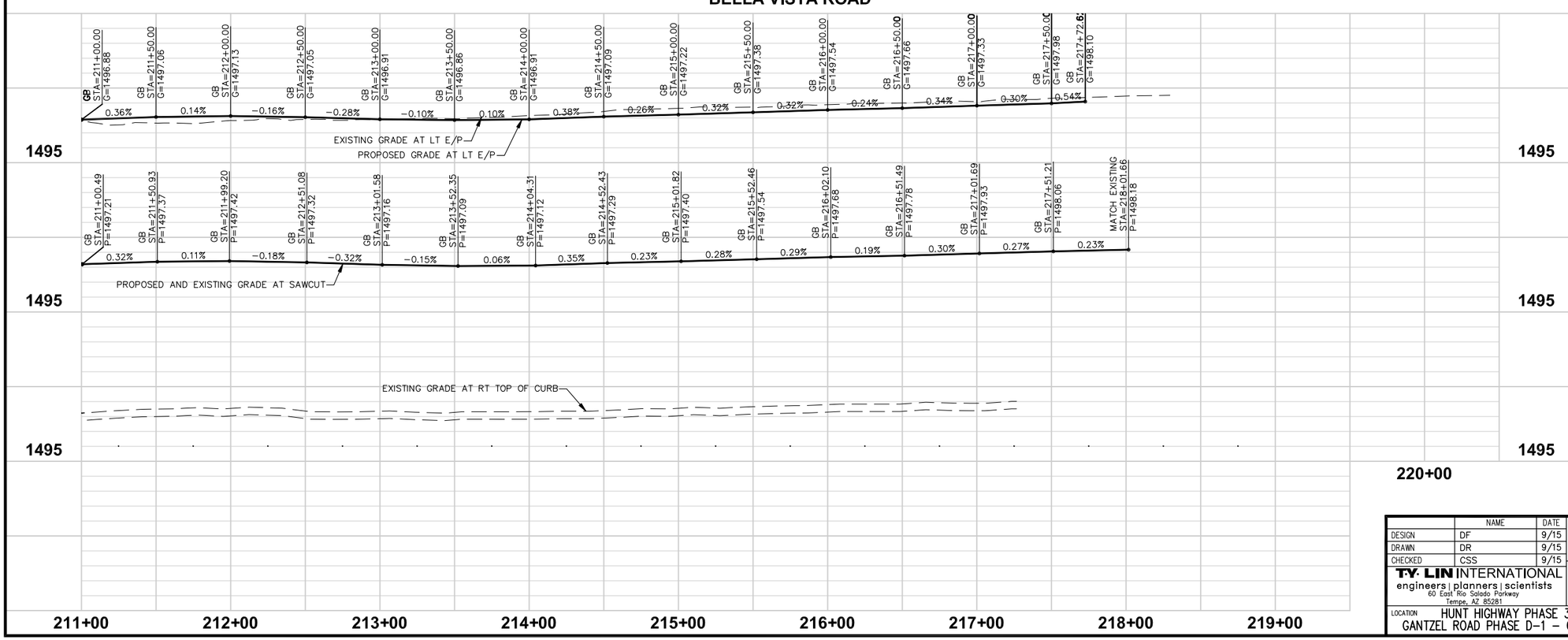
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





PAVING CONSTRUCTION NOTES

1	CONSTRUCT PAVEMENT PER TYPICAL SECTIONS, SEE SHEET 43-44 FOR QUANTITIES.	5,851 SF
11	SAWCUT 2' MIN. EXISTING PAVEMENT TO NEAT CLEAN EDGE & MATCH WITH PAVING PER TYPICAL SECTIONS.	N.P.I.
12	PROTECT IN PLACE.	N.P.I.
29	CONSTRUCT SAFETY EDGE PER DETAIL ON TYPICAL SECTION SHEETS.	703 LF

REMOVAL / RELOCATE NOTES

1	REMOVE EXISTING AC PAVEMENT.	1,634 SF

NOTE: FOR STORM DRAIN SEE SHEETS 85-98

NOTE: FOR SIGNING & MARKING SEE SHEETS 112-125

NOTE: FOR DRIVEWAY PROFILE SEE SHEETS 74-80

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

PAVING PLAN AND PROFILE SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/2/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 73 OF 176

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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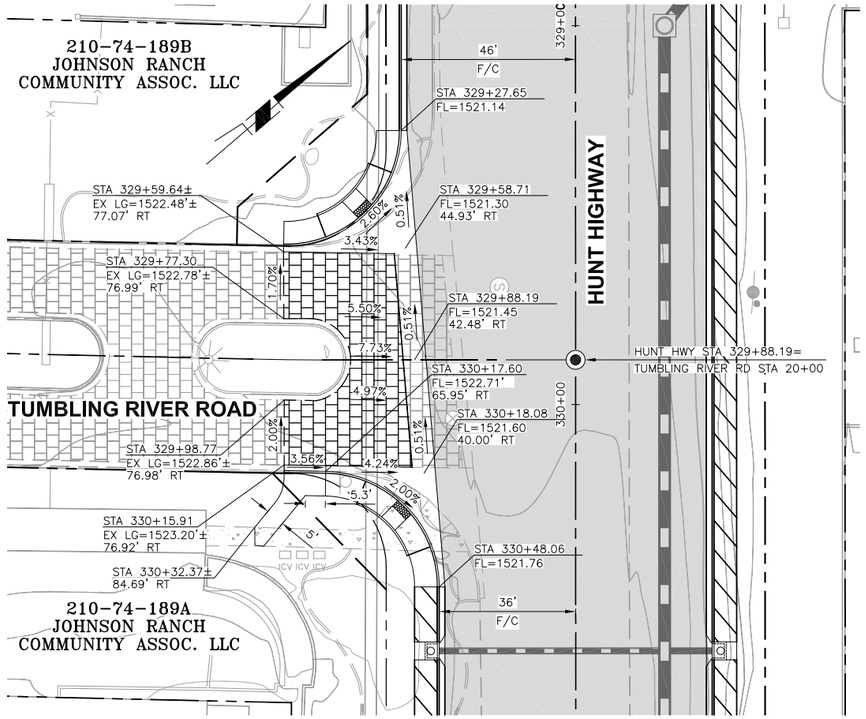

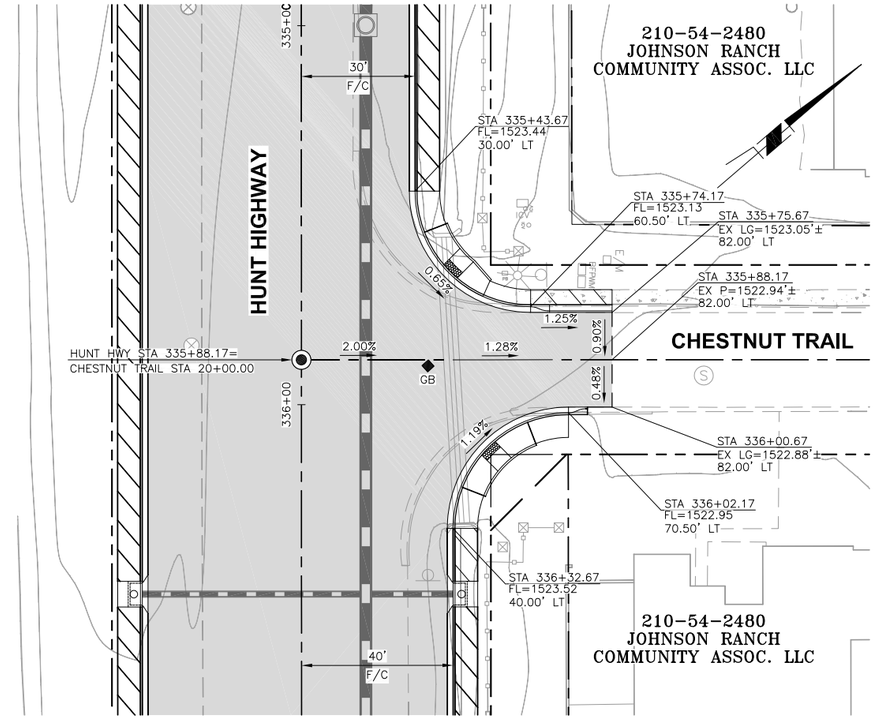

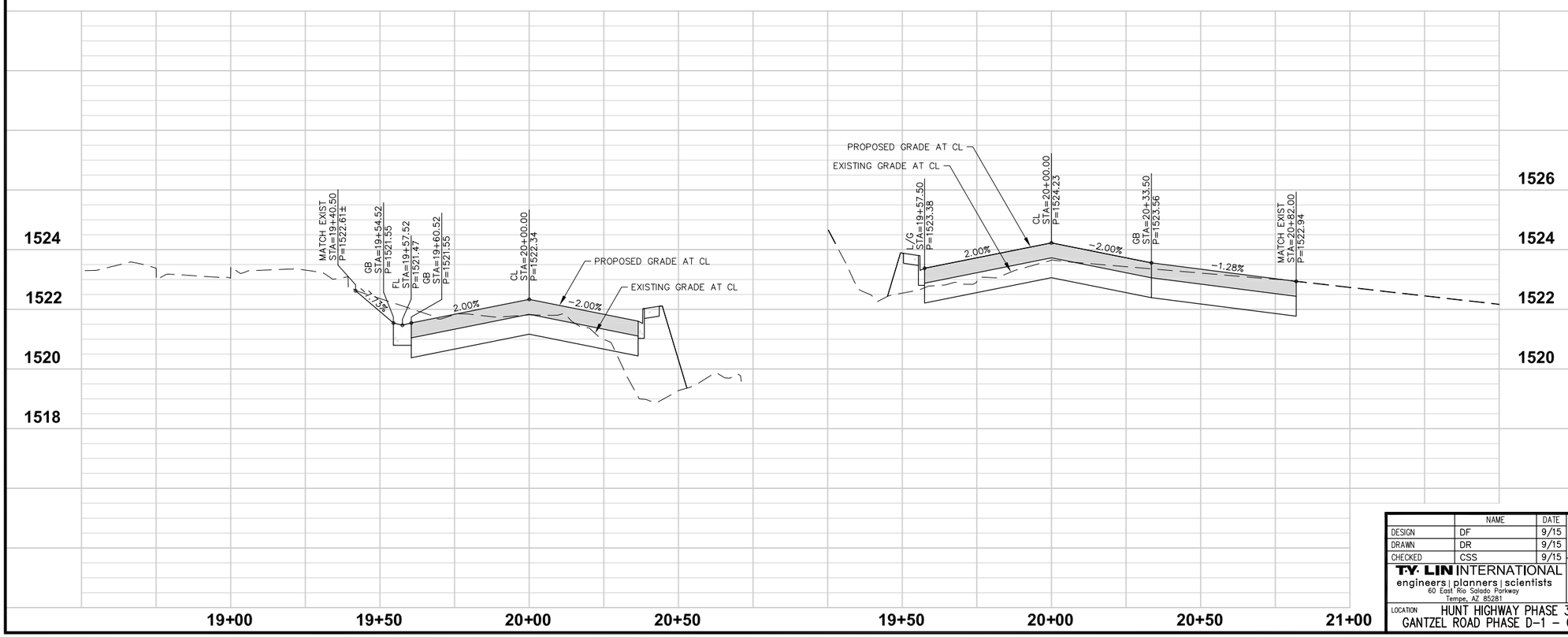

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20 0 20 40 60
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DRAWN	DR	9/15
CHECKED	CSS	9/15

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ENGINEERING BRANCH
DESIGN SECTION

DRIVEWAY PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 74 OF 176

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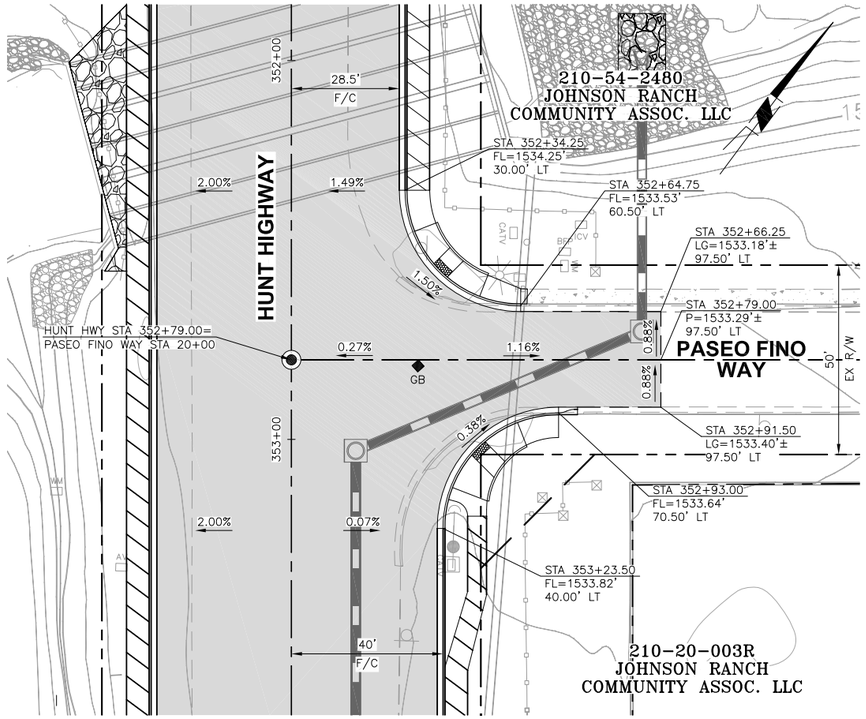

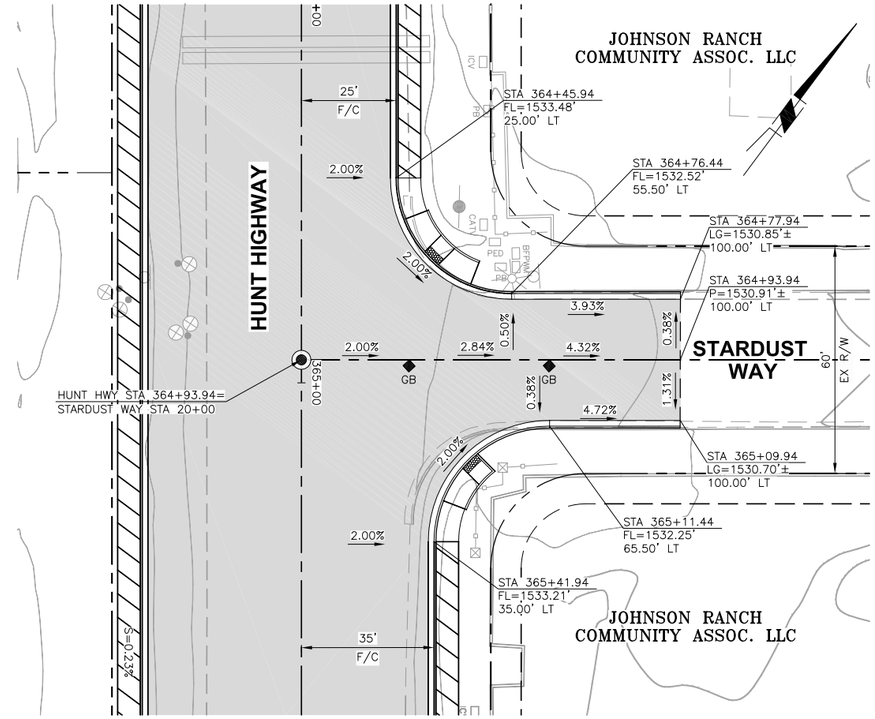

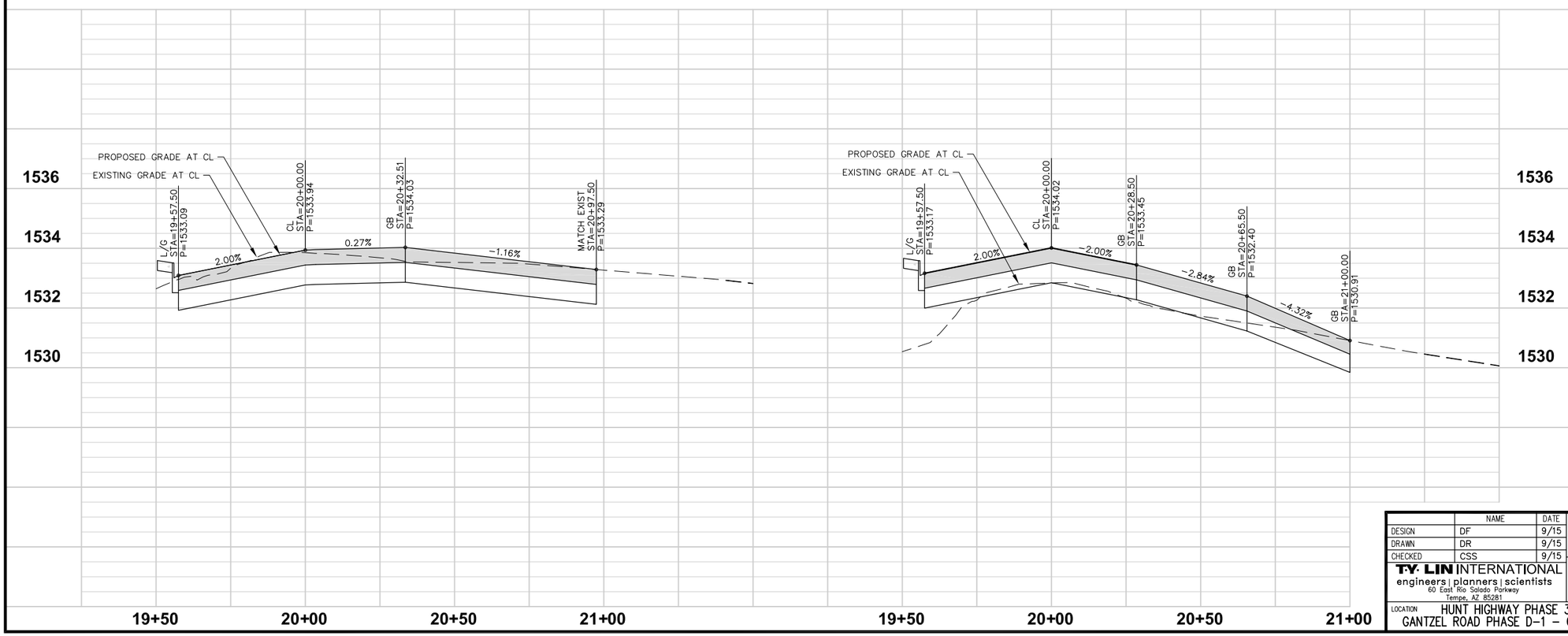

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DRIVEWAY PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 9/30/17

SHEET 75 OF 176

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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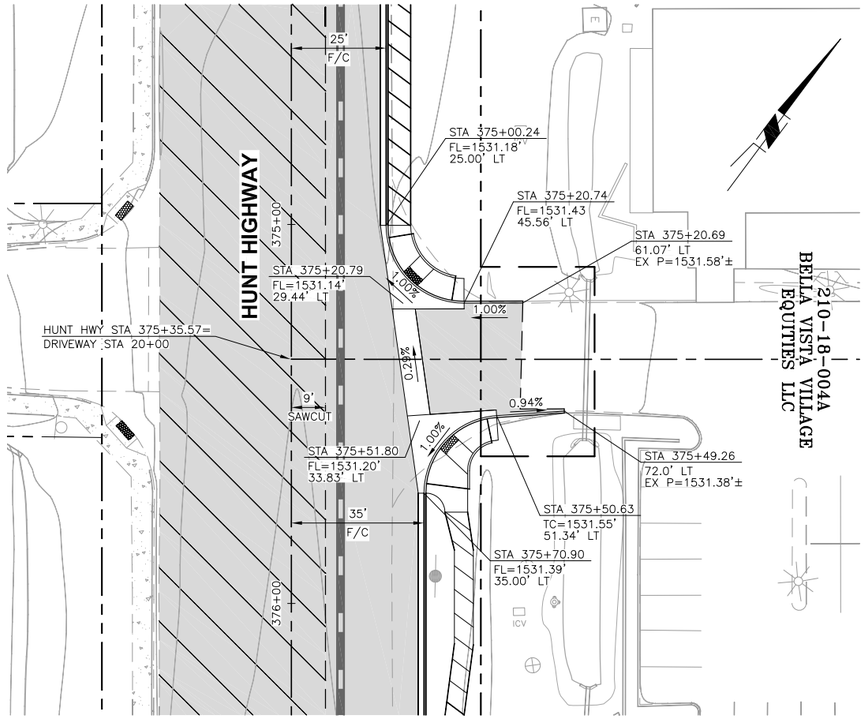

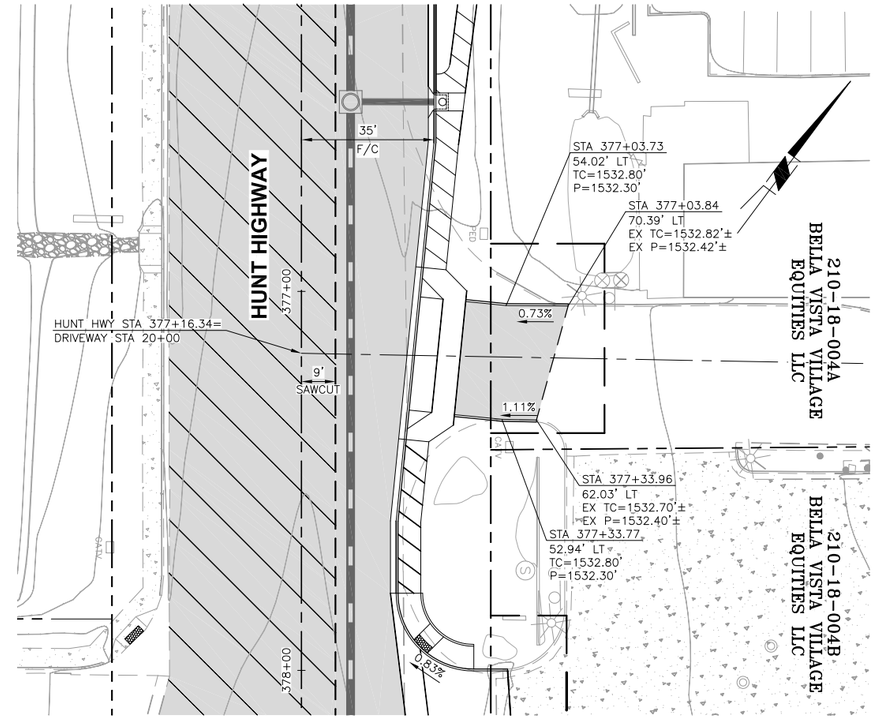

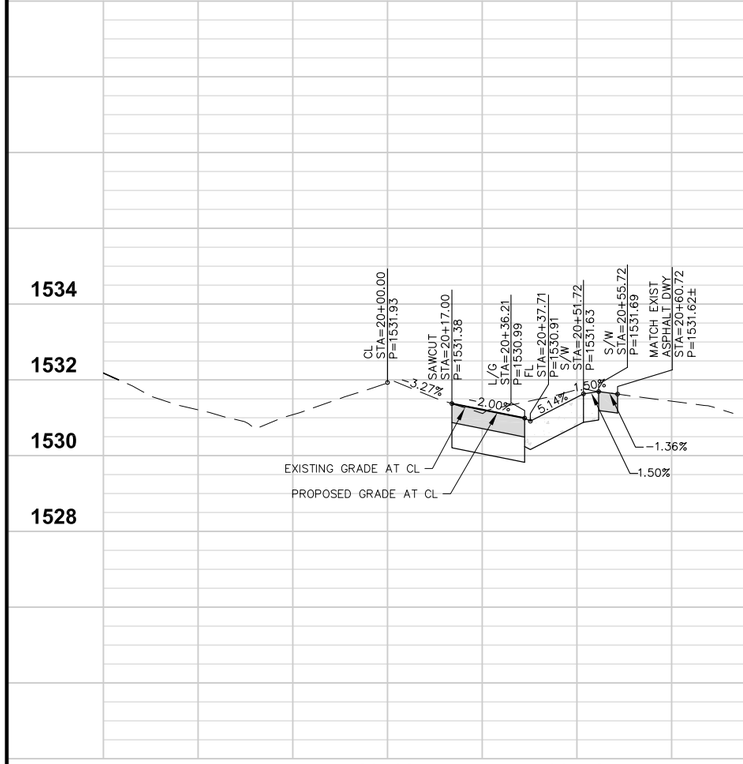

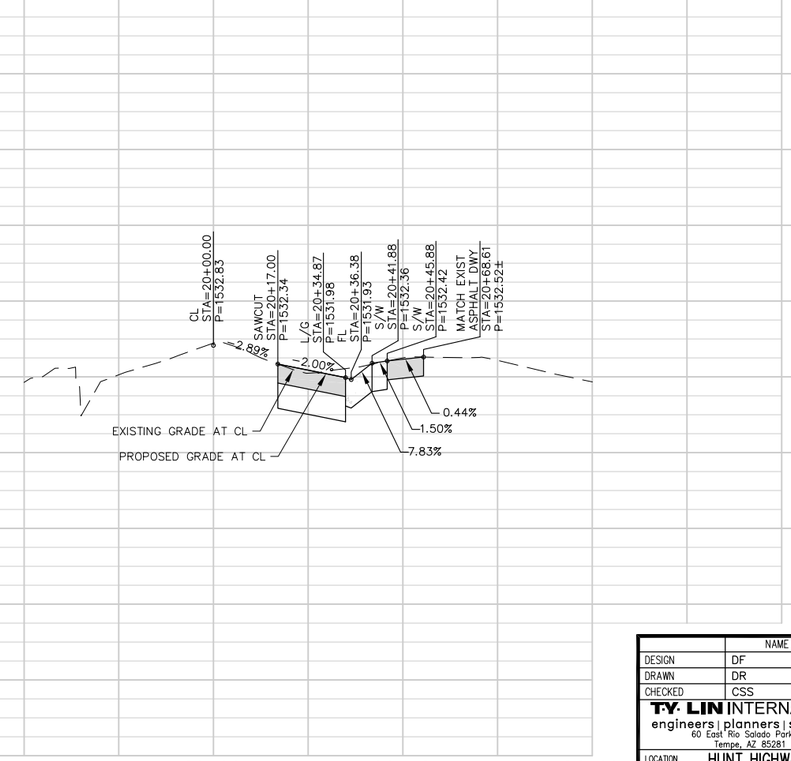

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20 0 20 40 60
SCALE: 1" = 20'
VERT: 1" = 2'

NO.	REVISION	BY	APPR	DATE

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
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DESIGN SECTION

DRIVEWAY PLAN AND PROFILE

LOCATION: HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 9/30/17

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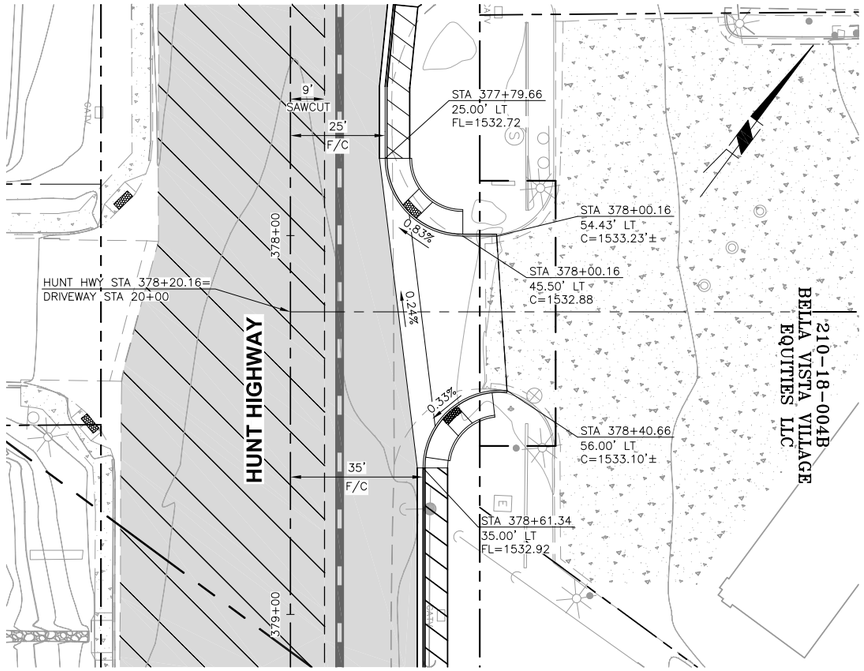
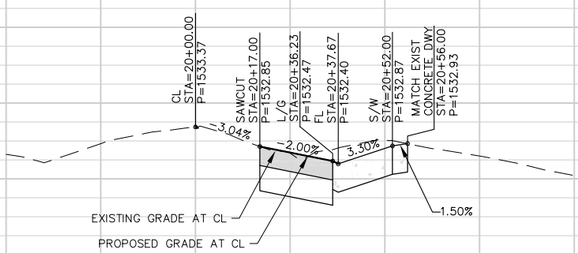
9	AZ	62952173 & 662170001			





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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
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DRIVEWAY PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
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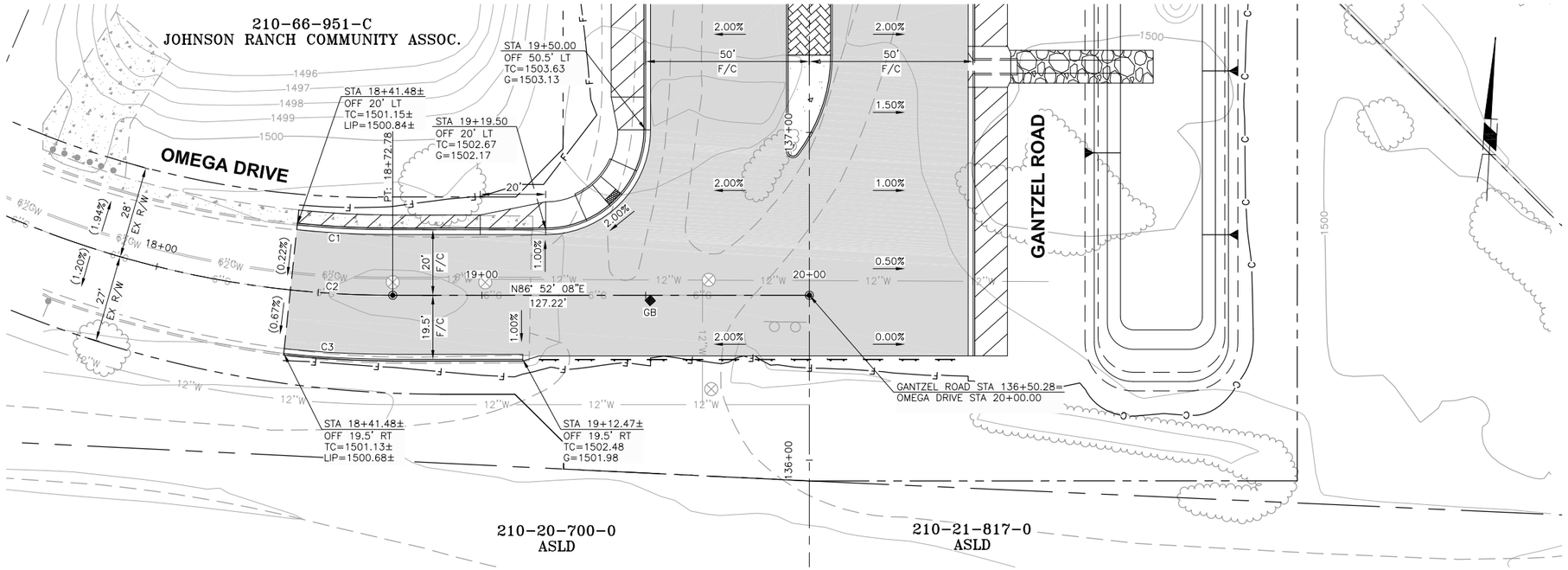
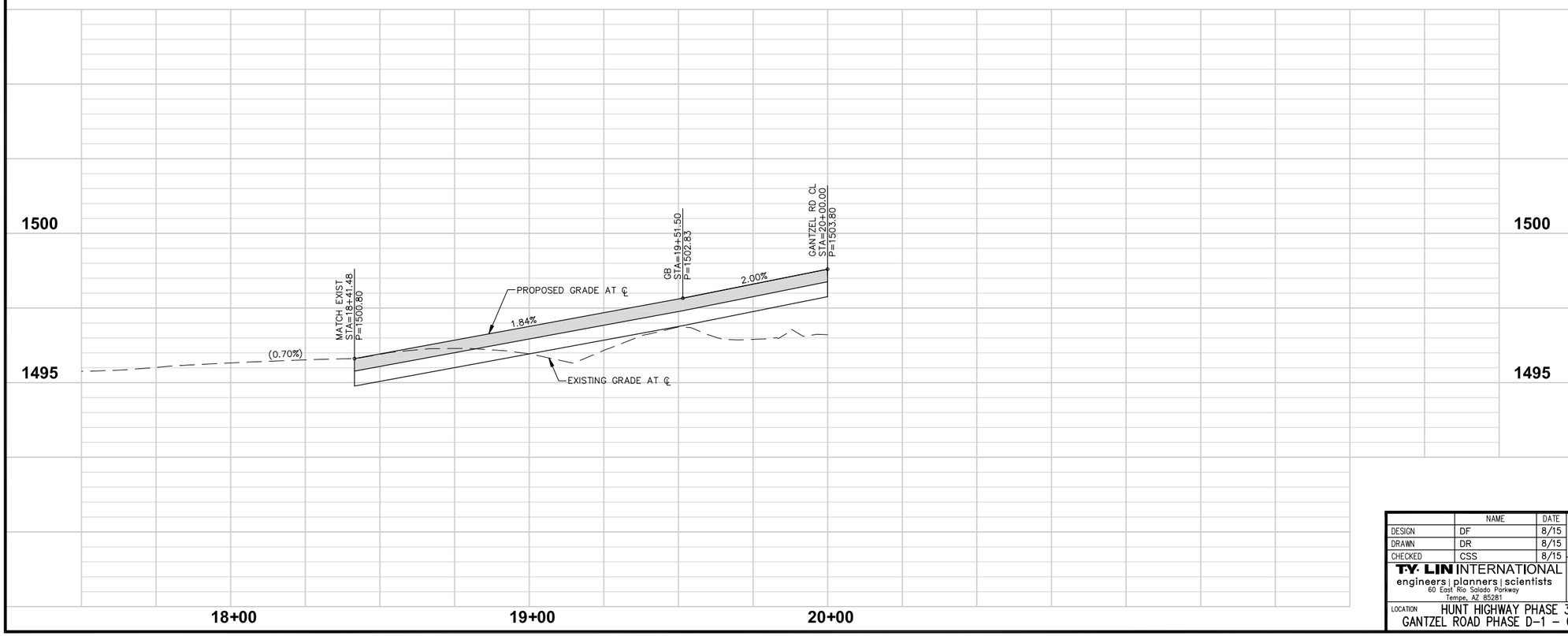


OMEGA DRIVE
(SEE PAVING SHEET 57)



LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	00°00'0"	280.00'	29.22'	–'
C2	38°01'20"	300.00'	199.08'	195.45'
C3	00°00'00"	319.50'	33.34'	–'

NOTE: ALL LINE/CURVE DATA TO FACE OF CURB

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
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DRIVEWAY PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
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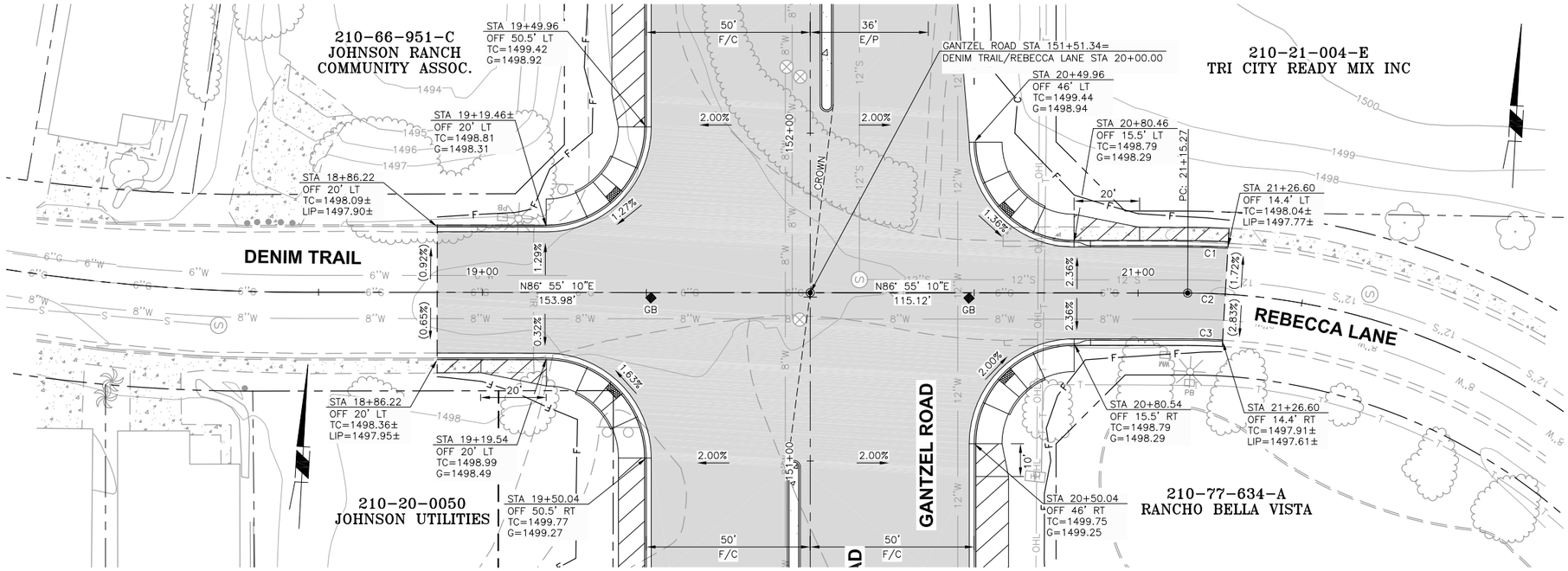
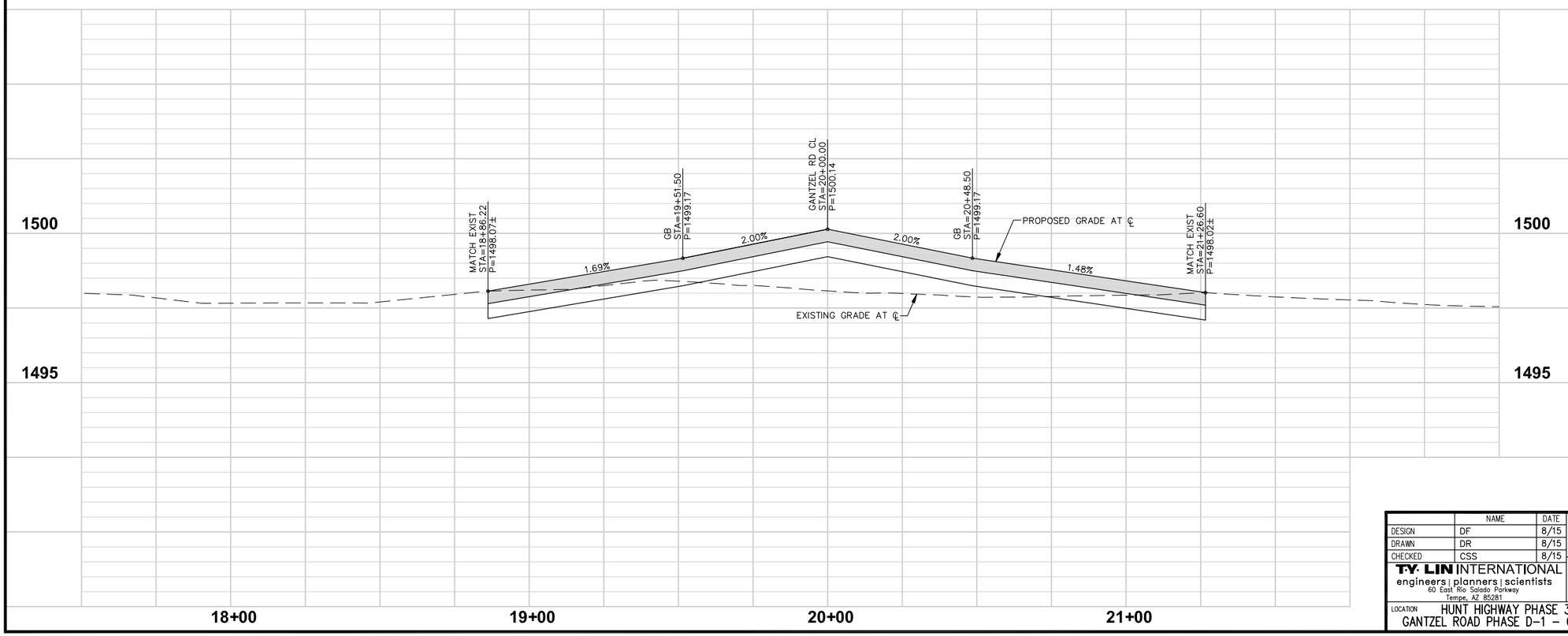


DENIM TRAIL/REBECCA LANE

(SEE PAVING SHEET 58)



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NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	00°00'0"	280.00'	29.22'	–'
C2	38°01'20"	300.00'	199.08'	195.45'
C3	00°00'00"	319.50'	33.34'	–'

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SHEET 79 OF 176

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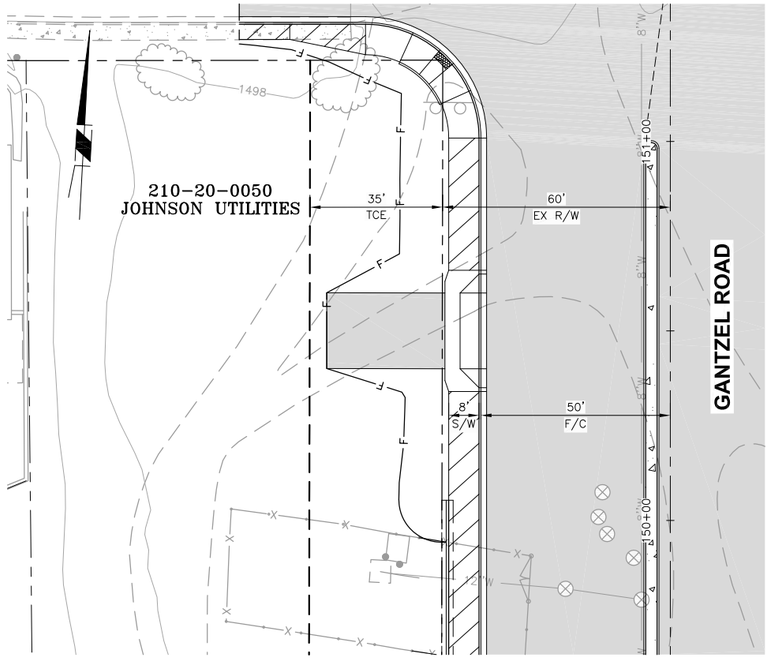
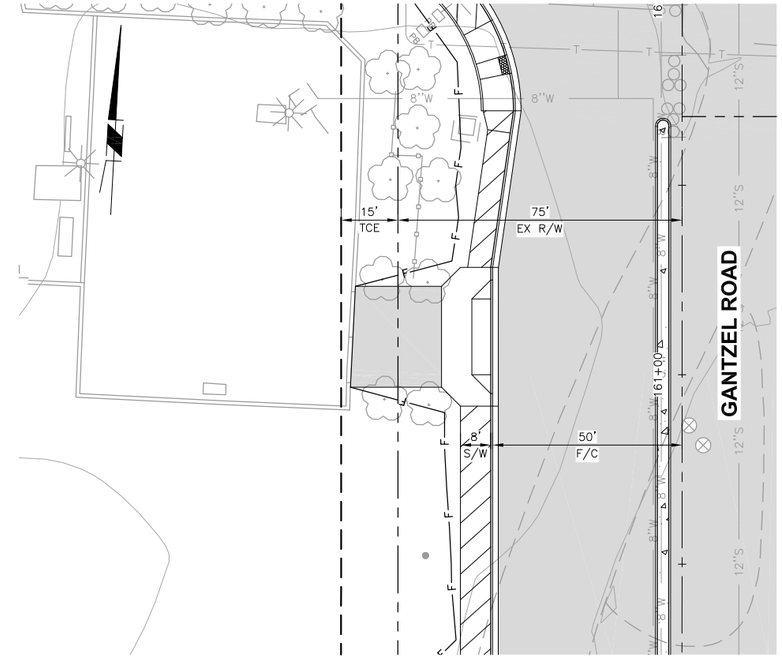
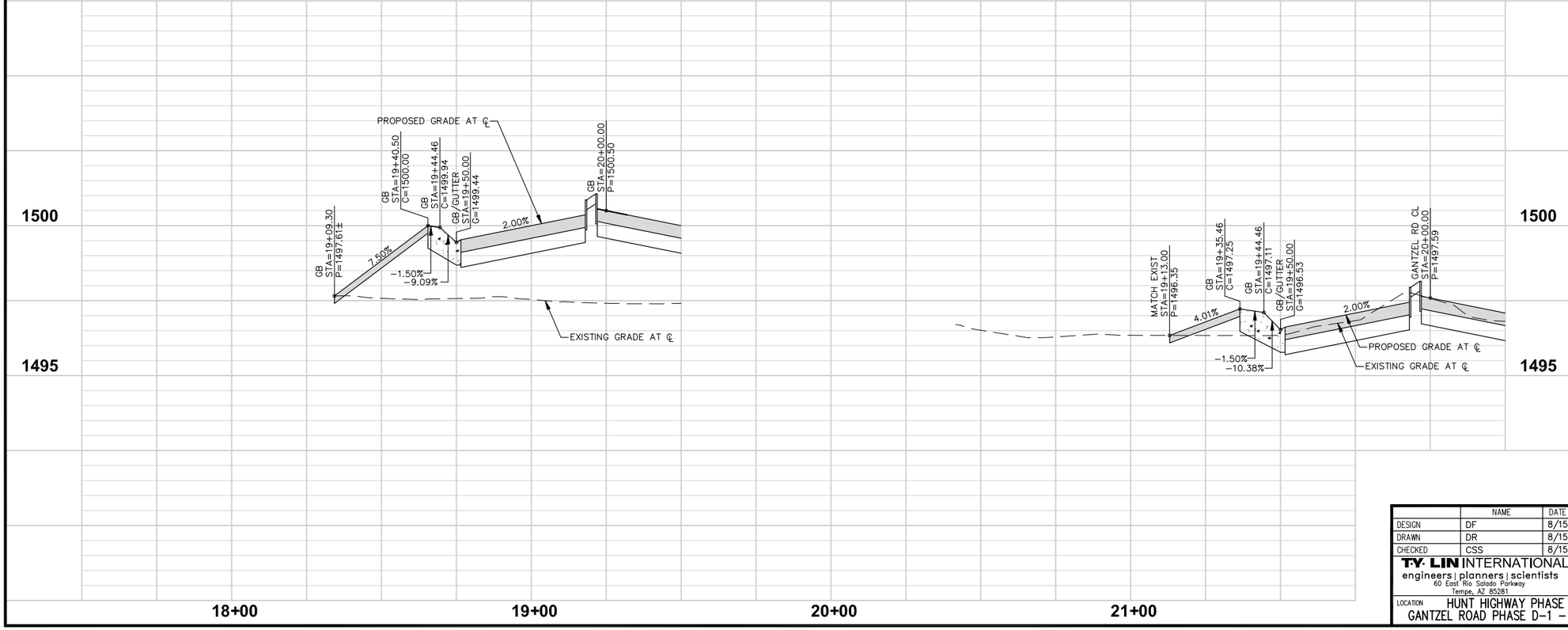


DWY @ STA 150+50
(SEE PAVING SHEET 58)



DWY @ STA 161+10
(SEE PAVING SHEET 60)



Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

20 0 20 40 60
SCALE: 1" = 20'
VERT: 1" = 2'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

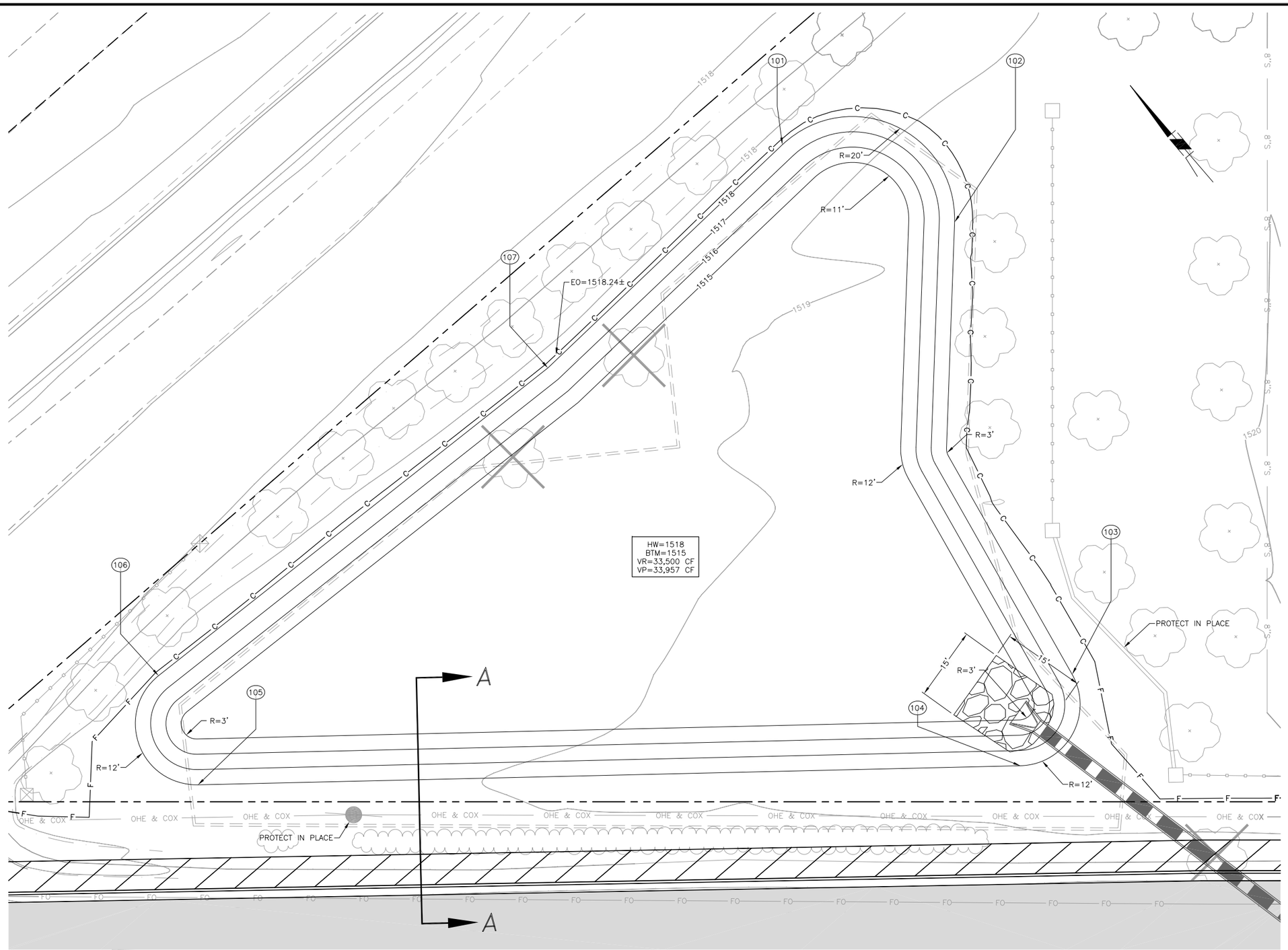
DRIVEWAY PROFILE SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Details\2170001_78-80_PH1_Driveway_Plan_Profile.dwg 8/27/2015 12:08:41 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



HUNT HIGHWAY BASIN 8 DETAIL

SEE SHEET 49

BASIN 8 CONTROL

POINT NO.	STA	CL OFFSET
101	327+95.94	178.89' LT
102	328+29.72	163.69' LT
103	328+52.78	74.98' LT
104	328+42.62	57.07' LT
105	326+81.32	53.33' LT
106	326+73.60	74.74' LT
107	327+49.96	135.10' LT

SECTION A-A

NOTE: FOR STORM DRAIN PLAN AND PROFILE SEE SHEET 87

Call at least two full working days before you begin excavation.
ARIZONA 811
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10 5 0 10 20 30
SCALE: 1" = 10'

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

RETENTION BASIN 8 DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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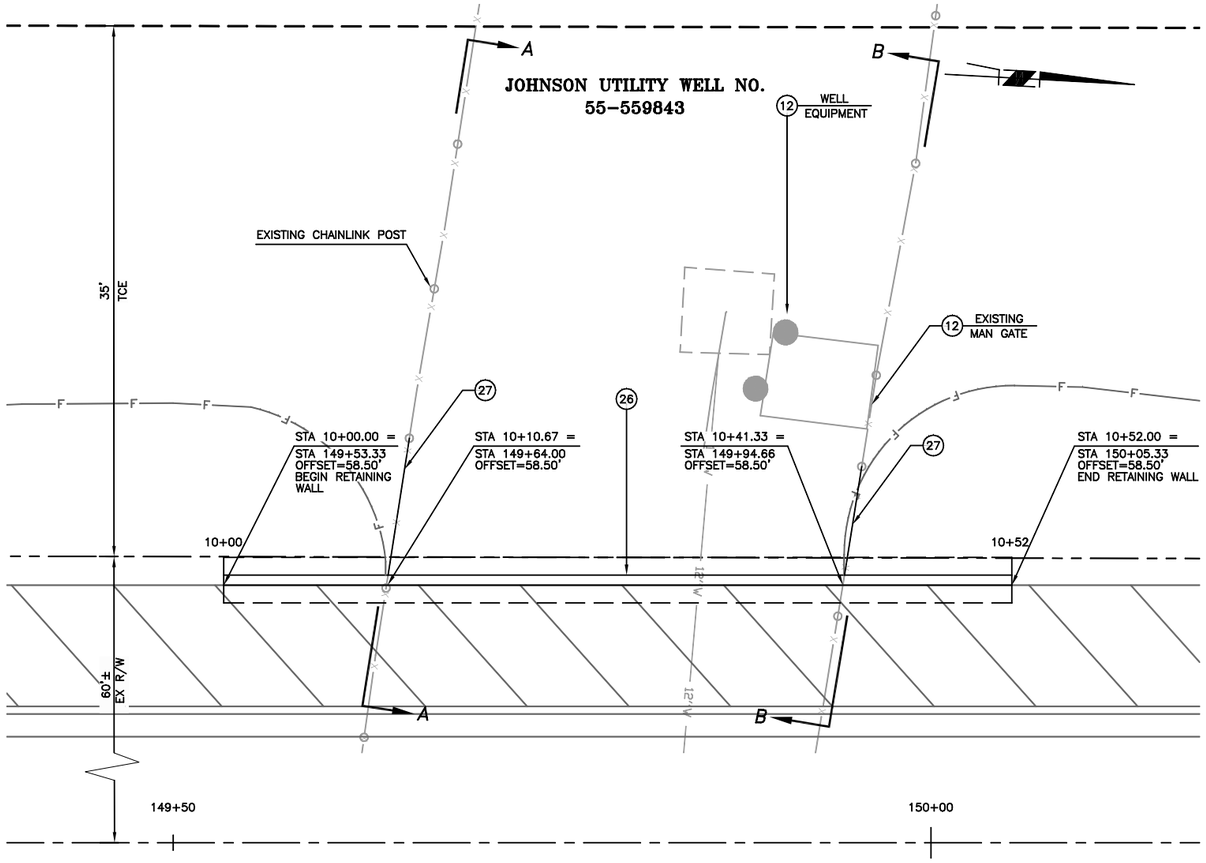
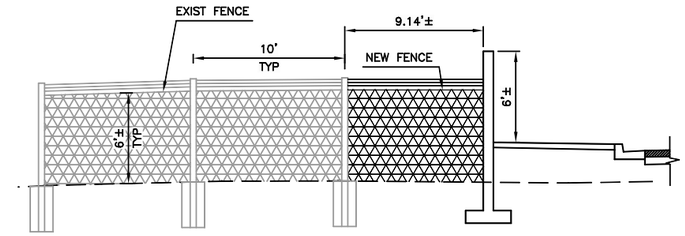
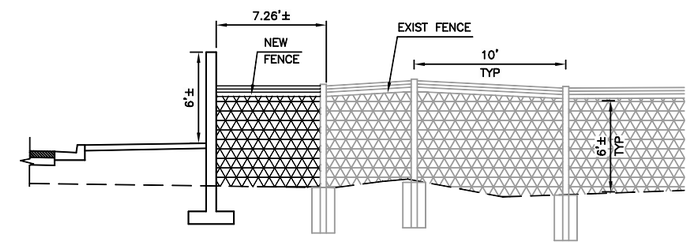


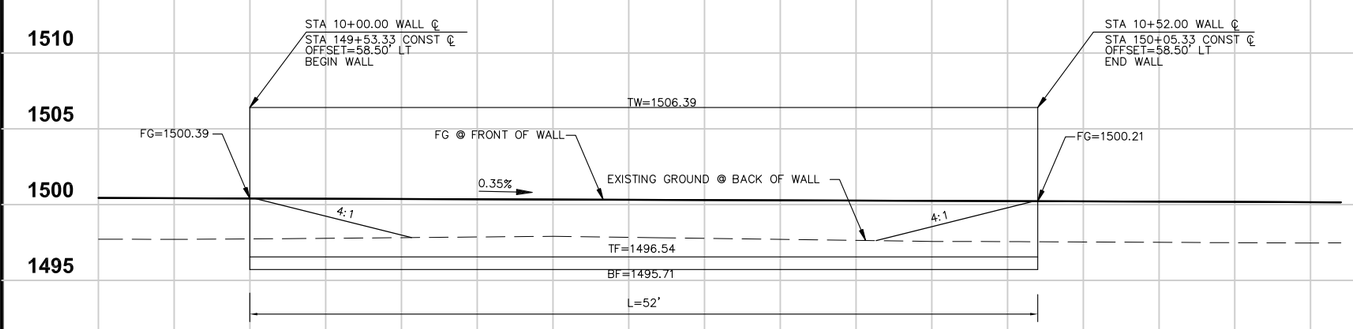
GANTZEL ROAD



SECTION A-A



SECTION B-B



F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

PAVING CONSTRUCTION NOTES

(12) PROTECT IN PLACE.

(26) CONSTRUCT MASONRY WALL PER ADOT STD DWG 8.02. 555 SF

(27) FURNISH AND INSTALL CHAINLINK FENCE PER MAG STD DET 160 AND ATTACH TO MASONRY WALL. 16 LF

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5 0 5 10 15
SCALE: 1" = 5'
VERT: 1" = 5'

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

RETAINING WALL SHEET

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

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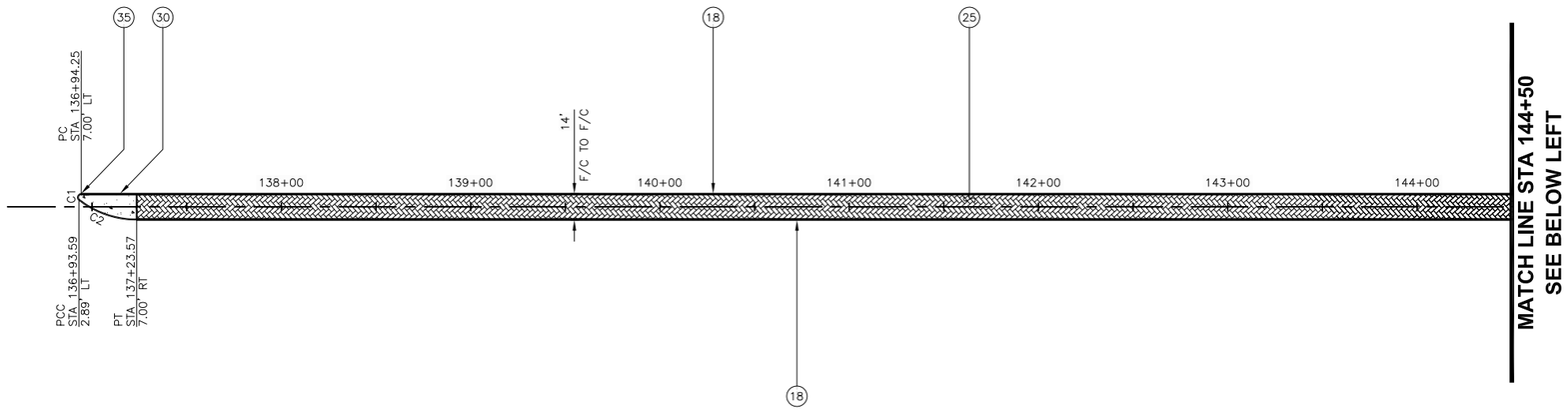
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

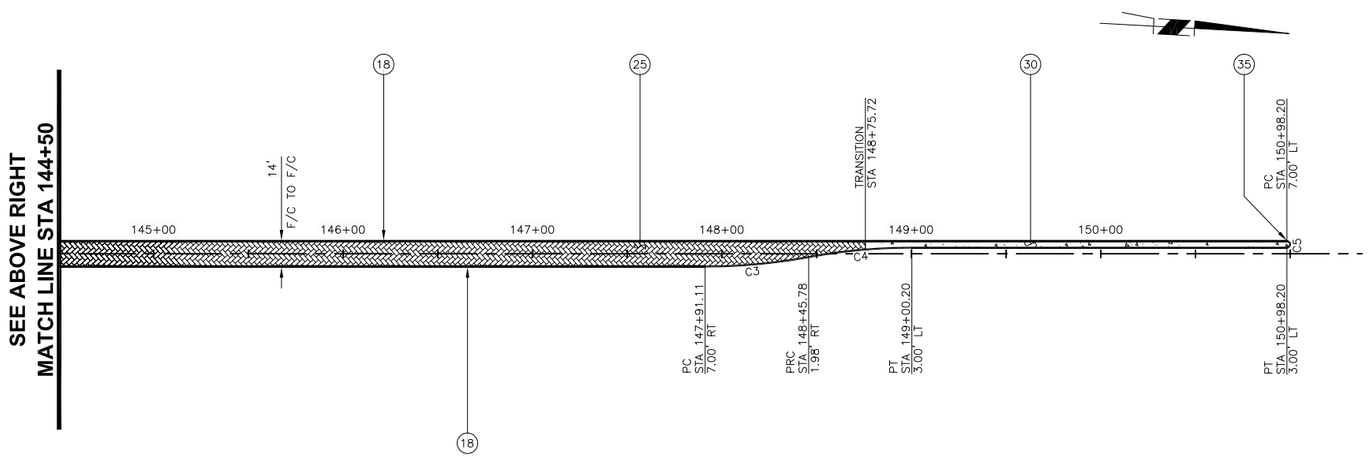
PAVING CONSTRUCTION NOTES

18	CONSTRUCT SINGLE CURB PER MAG STD DET 222, TYPE A, H=6".	2,823 LF
25	CONCRETE PAVERS PER MAG STD DET 225 AND STRUCTURAL SECTION ON THIS SHEET.	14,669 SF
30	FURNISH AND INSTALL MEDIAN NOSE TRANSITION PER MAG STD DET 223 (10' CURB HEIGHT TRANSITION). 4" THICK CONCRETE PAVING LIMITS AND STRUCTURAL SECTION AS SHOWN ON THIS SHEET.	974 SF
35	PAINT MEDIAN BULL NOSE PER ADOT STD DWG M-1.	2 EA



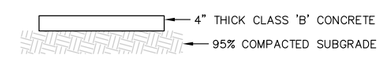
GANTZEL ROAD MEDIAN DETAIL

HORIZONTAL CONTROL



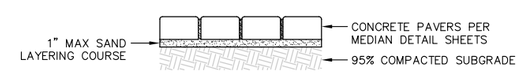
GANTZEL ROAD MEDIAN DETAIL

HORIZONTAL CONTROL



CONCRETE PAVING SECTION

NTS



CONCRETE PAVERS SECTION

NTS

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	142°20'30"	2.00'	4.97'	5.87'
C2	37°39'30"	50.00'	32.86'	17.05'
C3	10°29'57"	300.00'	54.97'	27.56'
C4	10°27'05"	300.00'	54.72'	27.44'
C5	180°00'00"	2.00'	6.28'	INFINITY

NOTE: ALL LINE/CURVE DATA TO FACE OF CURB

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40 0 40 80 120

SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

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ENGINEERING BRANCH
DESIGN SECTION

MEDIAN DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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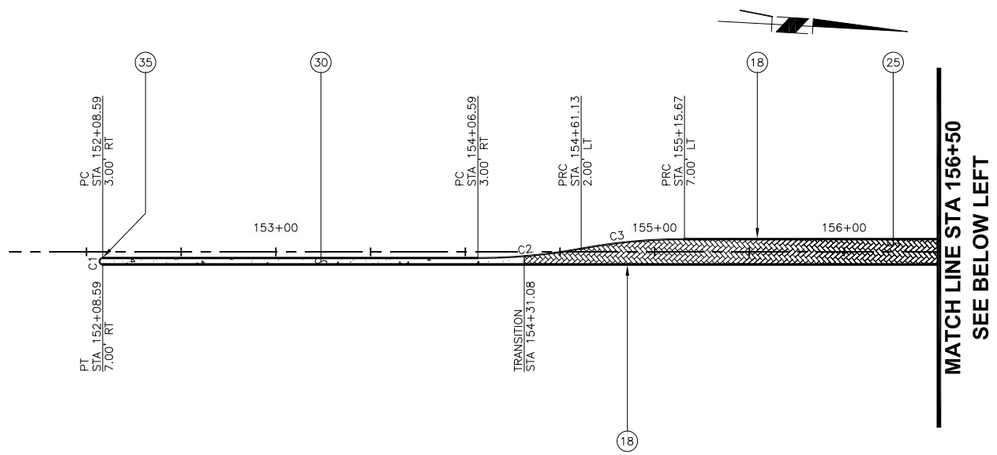
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

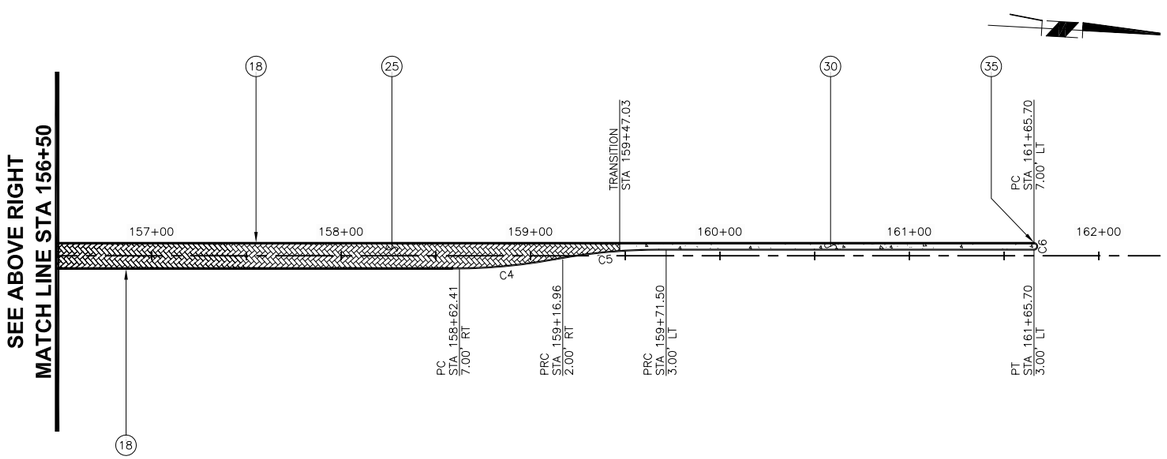
PAVING CONSTRUCTION NOTES

18	CONSTRUCT SINGLE CURB PER MAG STD DET 222, TYPE A, H=6".	1,928 LF
25	CONCRETE PAVERS PER MAG STD DET 225 AND STRUCTURAL SECTION ON THIS SHEET.	6,054 SF
30	FURNISH AND INSTALL MEDIAN NOSE TRANSITION PER MAG STD DET 223 (10' CURB HEIGHT TRANSITION). 4" THICK CONCRETE PAVING LIMITS AND STRUCTURAL SECTION AS SHOWN ON THIS SHEET.	1,344 SF
35	PAINT MEDIAN BULL NOSE PER ADOT STD DWG M-1.	2 EA



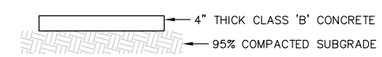
GANTZEL ROAD MEDIAN DETAIL

HORIZONTAL CONTROL



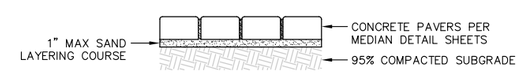
GANTZEL ROAD MEDIAN DETAIL

HORIZONTAL CONTROL



CONCRETE PAVING SECTION

NTS



CONCRETE PAVERS SECTION

NTS

LINE/CURVE DATA TABLE

NO.	DELTA	RADIUS	LENGTH	TANGENT
C1	180°00'00"	2.00'	6.28'	INFINITY
C2	10°28'31"	300.00'	54.85'	27.50'
C3	10°28'31"	300.00'	54.85'	27.50'
C4	10°28'31"	300.00'	54.85'	27.50'
C5	10°28'31"	300.00'	54.85'	27.50'
C6	180°00'00"	2.00'	6.28'	INFINITY

NOTE: ALL LINE/CURVE DATA TO FACE OF CURB

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40 0 40 80 120

SCALE: 1" = 40'

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ENGINEERING BRANCH
DESIGN SECTION

MEDIAN DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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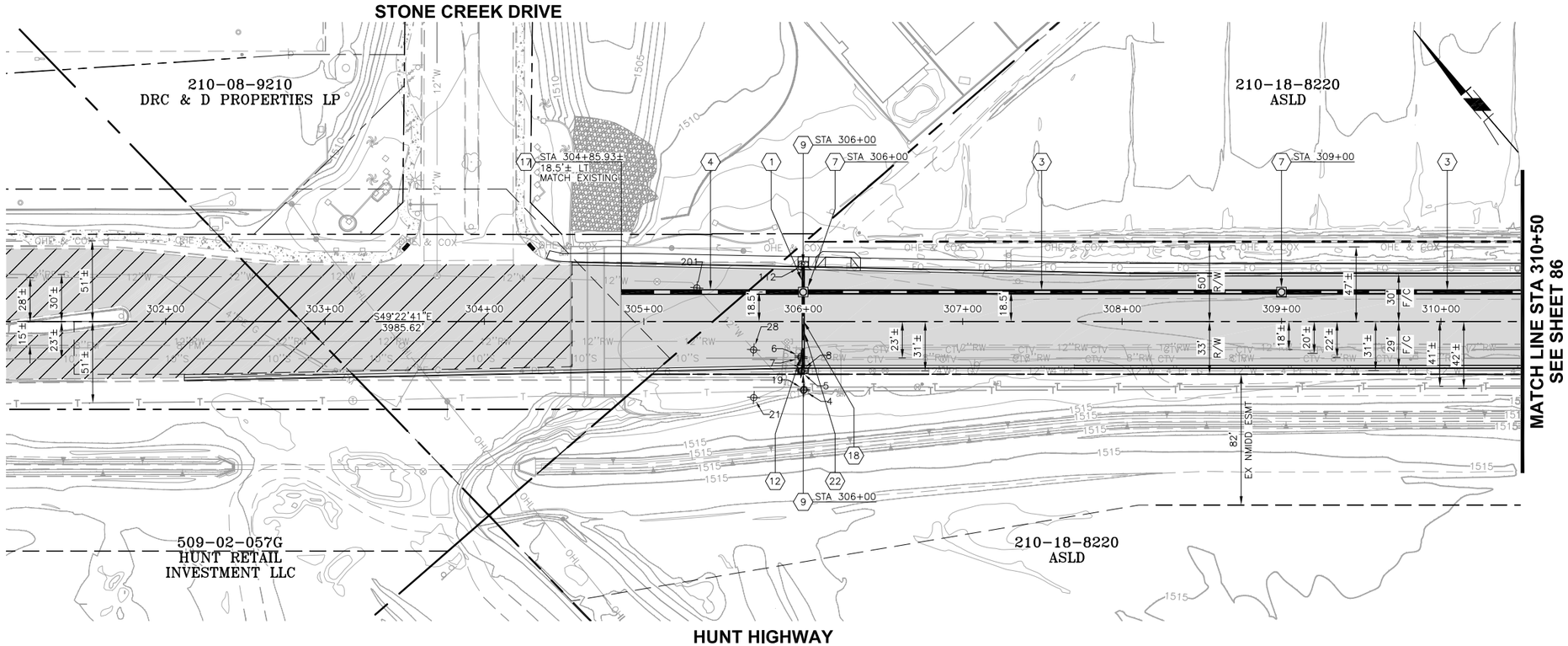
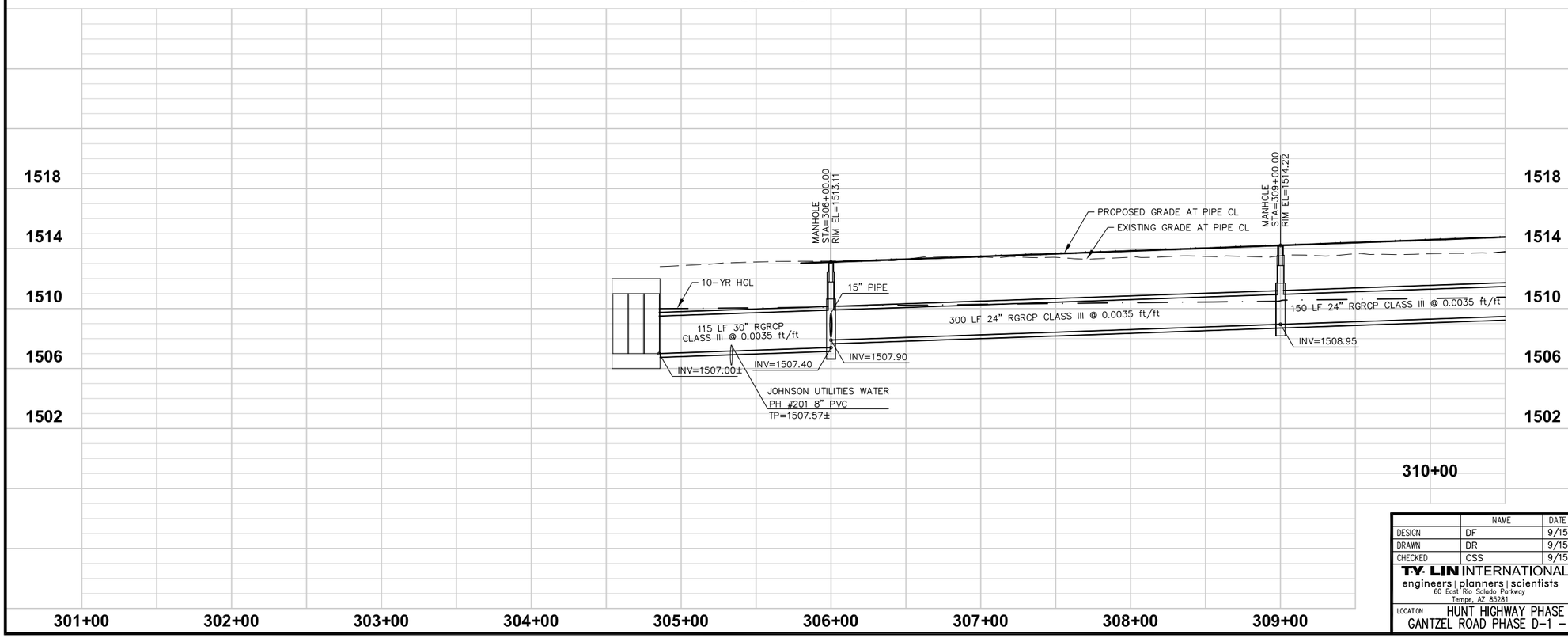
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	10 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	450 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	115 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	2 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
12	CONSTRUCT CONCRETE ENCASEMENT PER MAG STD DET 404-3	20 LF
17	CONNECT PROPOSED STORM DRAIN PIPE TO EXISTING BOX CULVERT PER DETAILS ON SHEET 110.	1 EA
18	CONSTRUCT CONCRETE COLLAR PER MAG STD DET 505	1 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	46 LF



POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

Call at least two full working days before you begin excavation.
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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'
VERT: 1" = 4'

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

STORM DRAIN PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/29/15 ARIZONA, U.S.A. Expires 9/30/17

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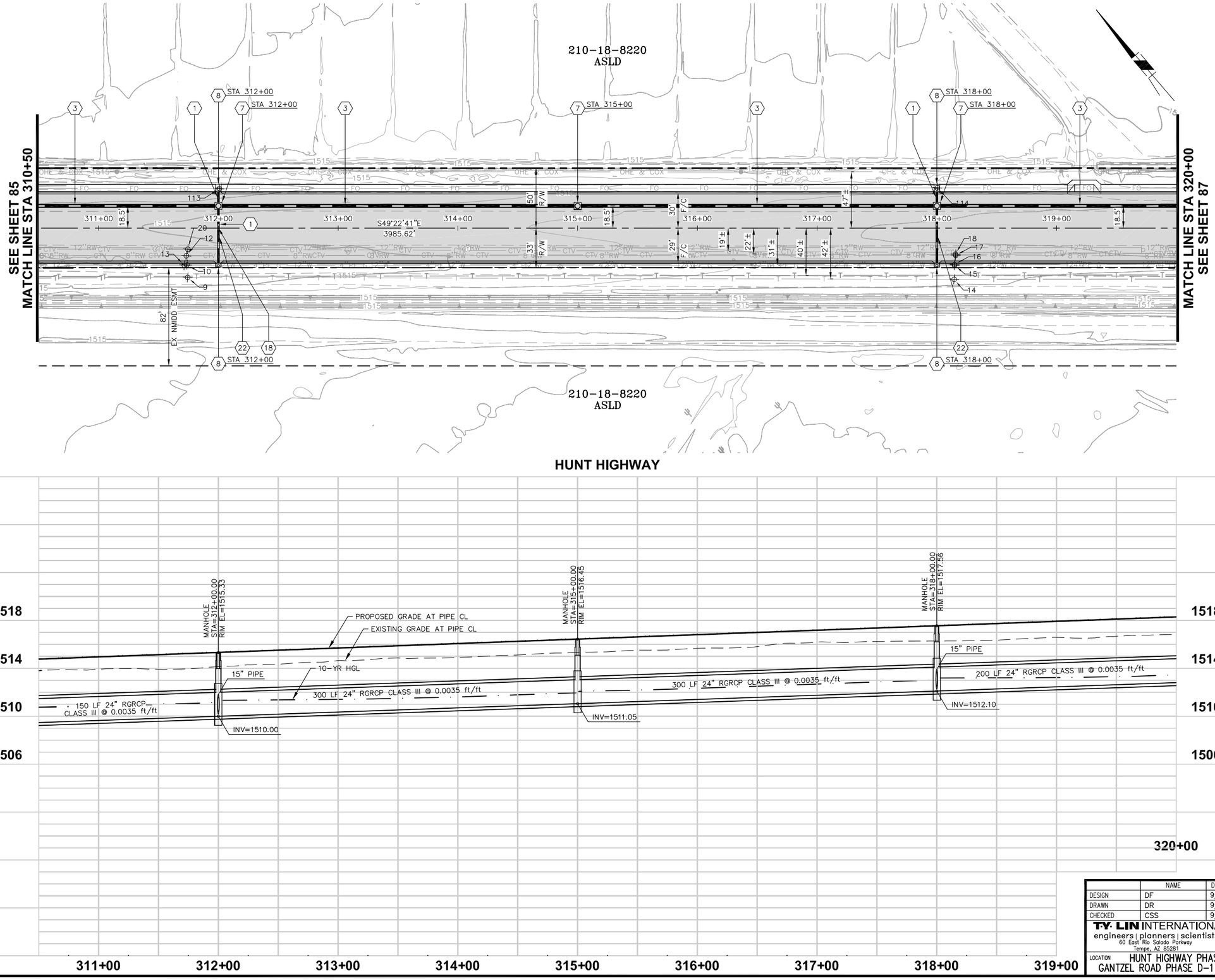
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	36.5 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	950 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	4 EA
18	CONSTRUCT CONCRETE COLLAR PER MAG STD DET 505	1 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	75.5 LF



POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

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40 0 40 80 120

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

STORM DRAIN PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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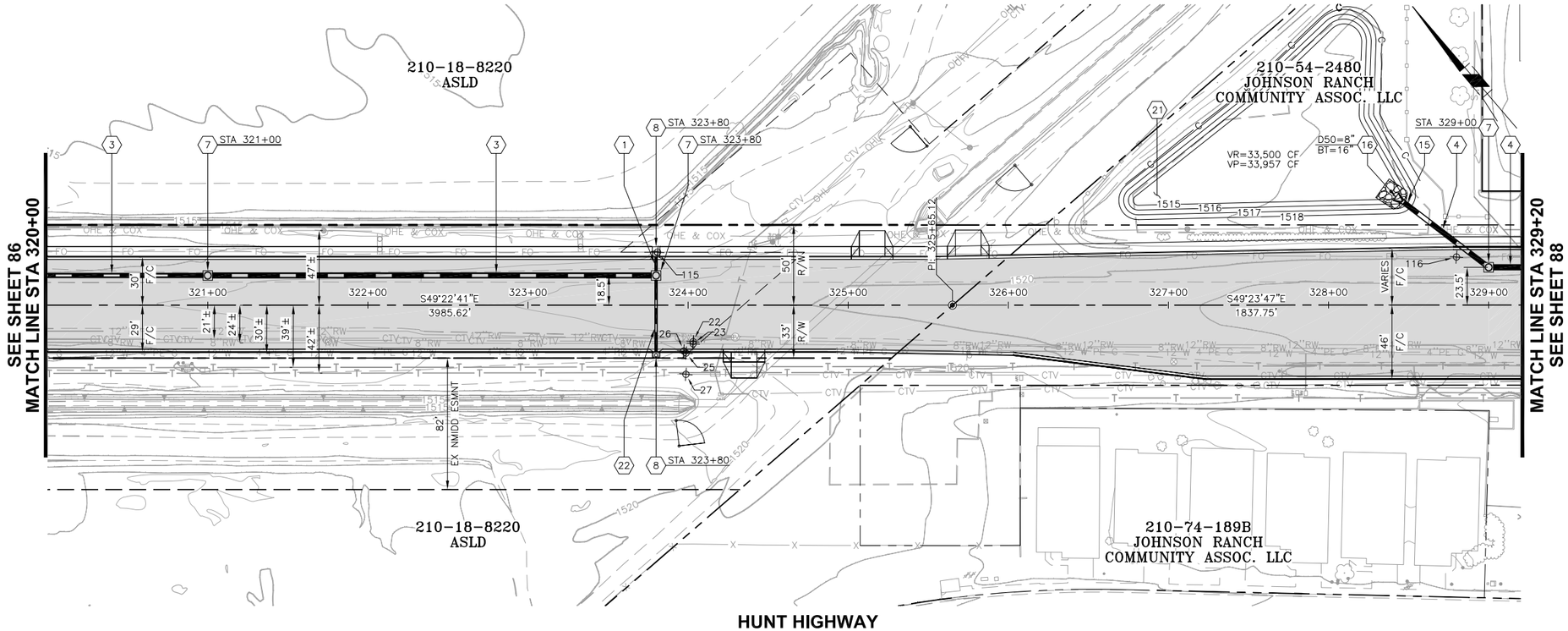
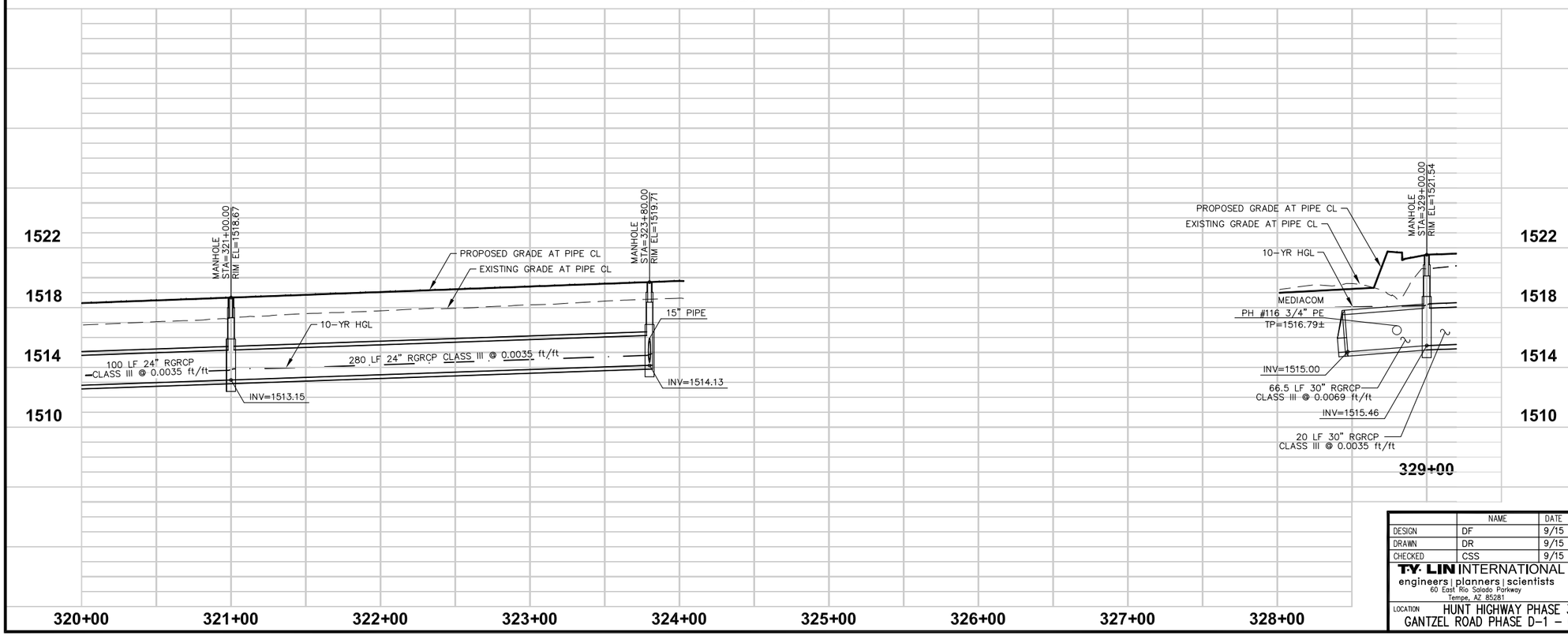
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	10 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	380 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	86.5 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	2 EA
15	FURNISH & INSTALL CONCRETE END SECTION PER MAG STD DET 545	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	12 TON
21	RETENTION BASIN PER DETAIL ON SHEET 81	
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	46 LF

POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

NOTE: FOR RETENTION BASIN DETAIL SEE SHEETS 94-98

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40 0 40 80 120
SCALE: 1" = 40'
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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

STORM DRAIN PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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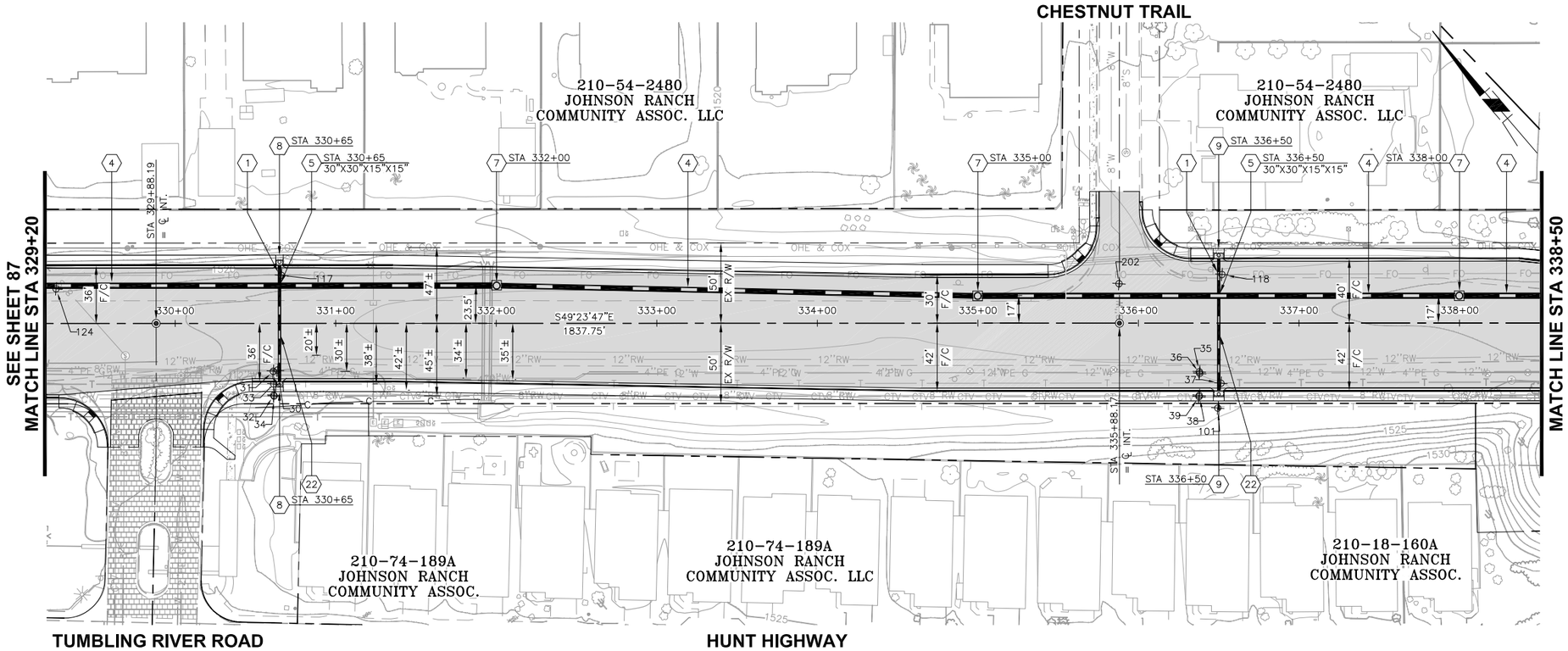
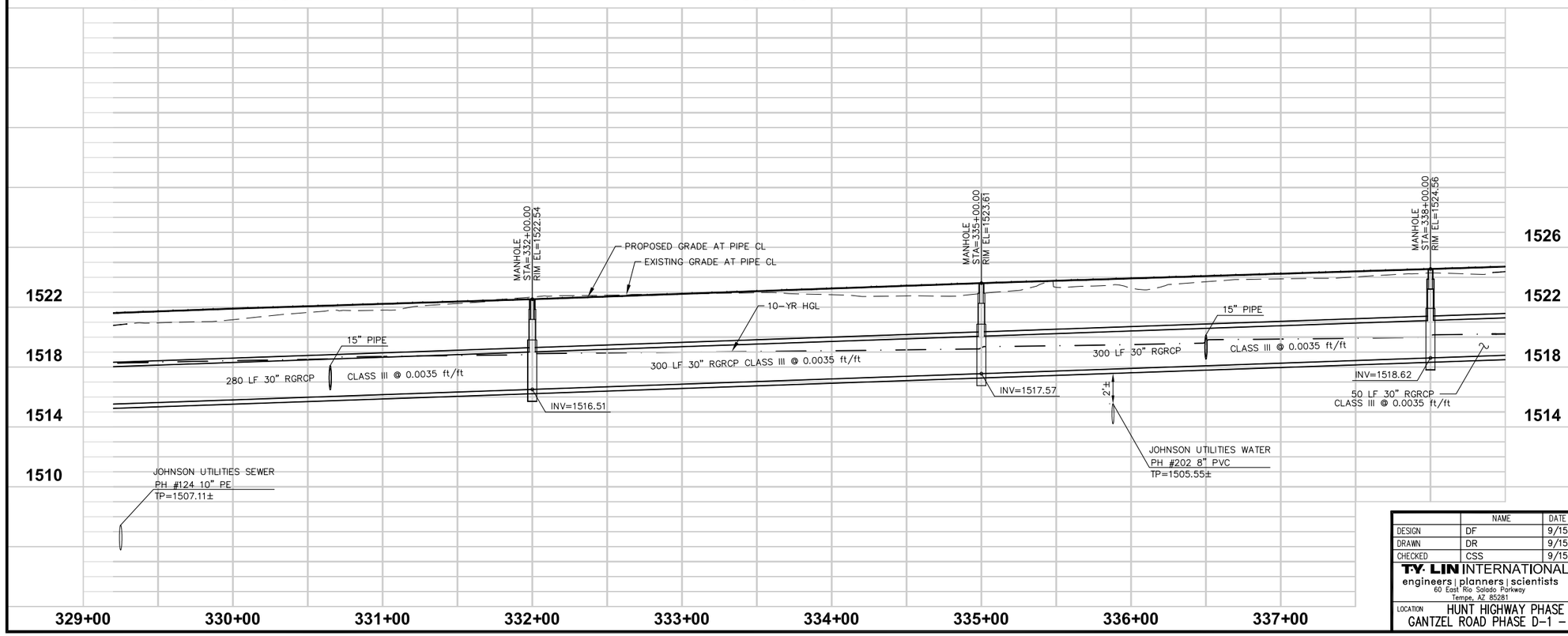
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	33.5 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	930 LF
5	FURNISH AND INSTALL PREFABRICATED CROSS, SIZE PER PLAN	2 EA
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	2 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	117 LF



POTHOLE NUMBER

(SEE POTHOLE REPORT FOR ADDITIONAL INFORMATION)

PRIOR TO EXCAVATION OF MAIN LINE, CONNECTOR PIPES AND CATCH BASINS, CONTRACTOR SHALL VERIFY TOP OF PIPE ELEVATIONS BY VACUUM POTHOLING

NOTE: FOR CONNECTOR PIPE PROFILES SEE SHEETS 94-98

Call at least two full working days before you begin excavation.
ARIZONA 811
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40 0 40 80 120

SCALE: 1" = 40'
VERT: 1" = 4'

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	NAME	DATE
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STORM DRAIN PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/29/15 ARIZONA, U.S.A. Expires 9/30/17

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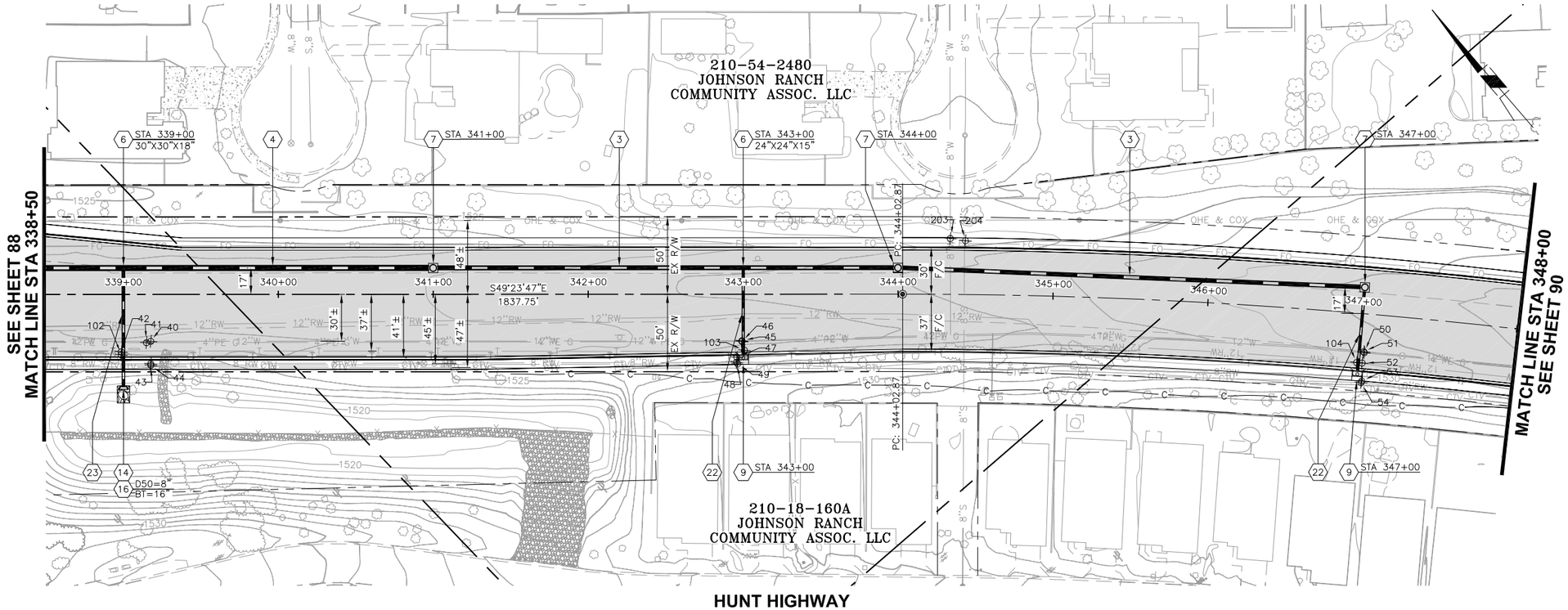
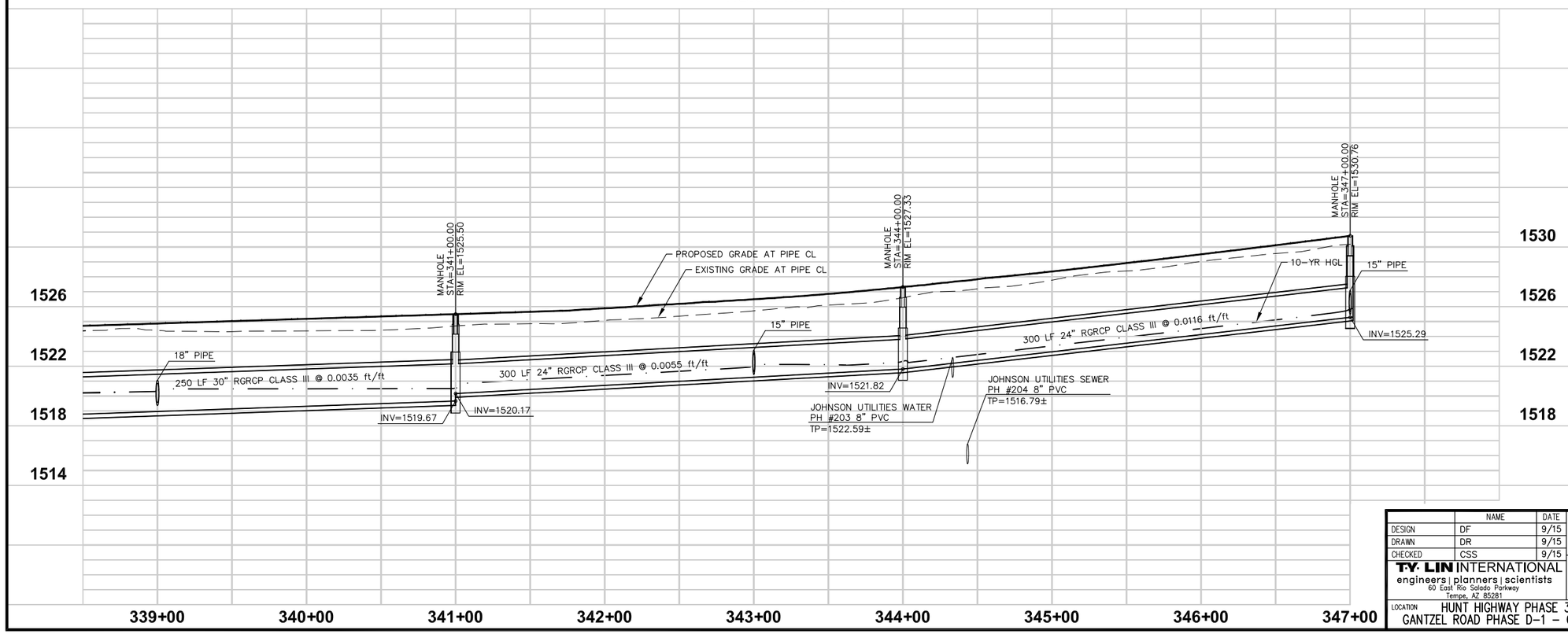
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





STORM DRAIN CONSTRUCTION NOTES

2	FURNISH AND INSTALL 18" RGRCP, CLASS III	78 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	600 LF
4	FURNISH AND INSTALL 30" RGRCP, CLASS III	250 LF
6	FURNISH AND INSTALL PREFABRICATED TEE, SIZE PER PLAN	2 EA
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
14	CONSTRUCT CONCRETE HEADWALL ('U' TYPE) MAG STD DET 501-1 & 501-2	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	5 TON
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	111.5 LF
23	FURNISH AND INSTALL 18" RGRCP, CLASS V	76.5 LF

POTHOLE NUMBER

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STORM DRAIN PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/29/15 ARIZONA, U.S.A. Expires 9/30/17

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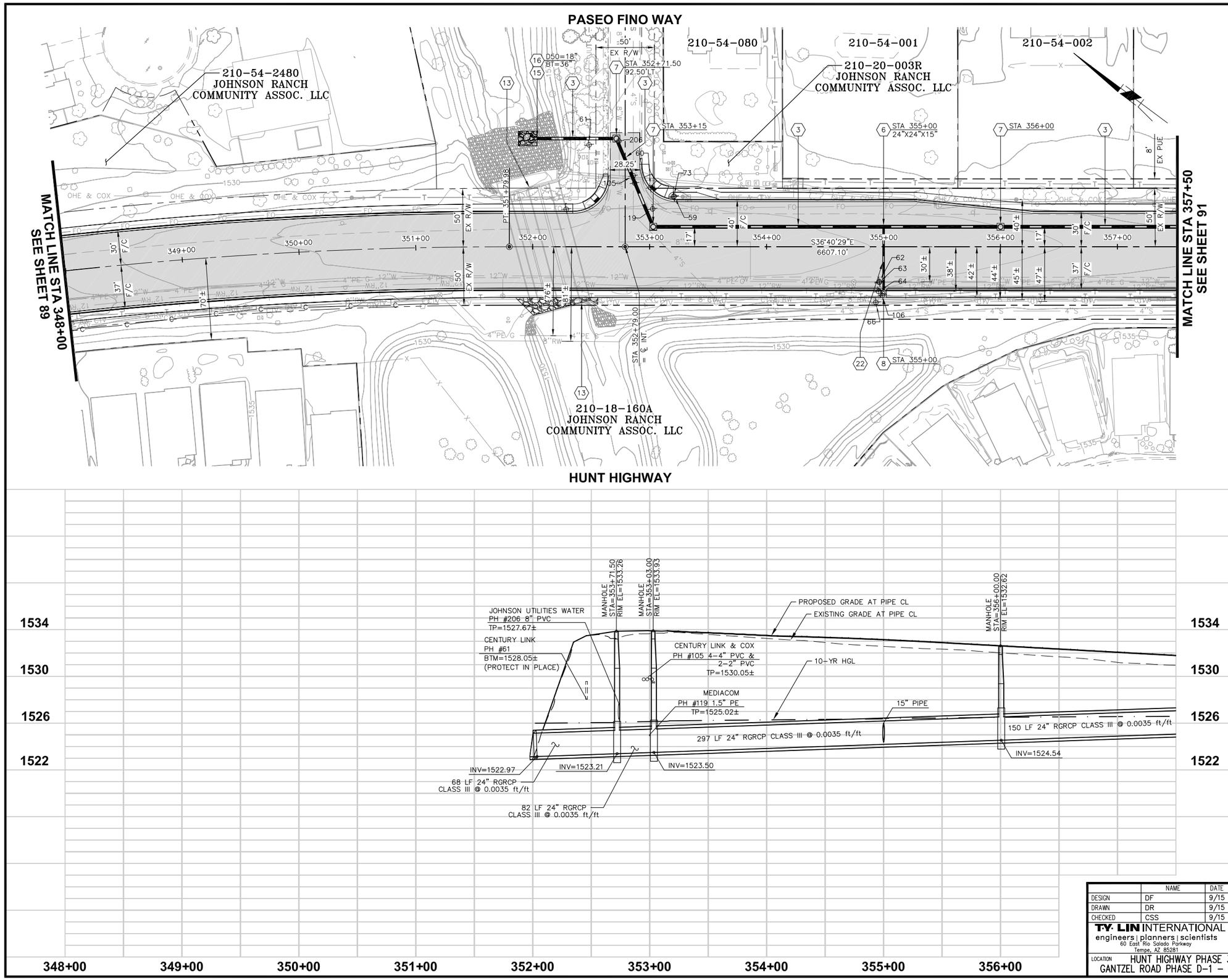

STORM DRAIN CONSTRUCTION NOTES

3	FURNISH AND INSTALL 24" RGRCP, CLASS III	597 LF
6	FURNISH AND INSTALL PREFABRICATED TEE, SIZE PER PLAN	1 EA
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	3 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	1 EA
13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206-2.	141 LF
15	FURNISH & INSTALL CONCRETE END SECTION PER MAG STD DET 545	1 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	25 TON
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	54 LF

⌖ POTHOLE NUMBER

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STORM DRAIN PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/29/15 ARIZONA, U.S.A. Expires 9/30/17

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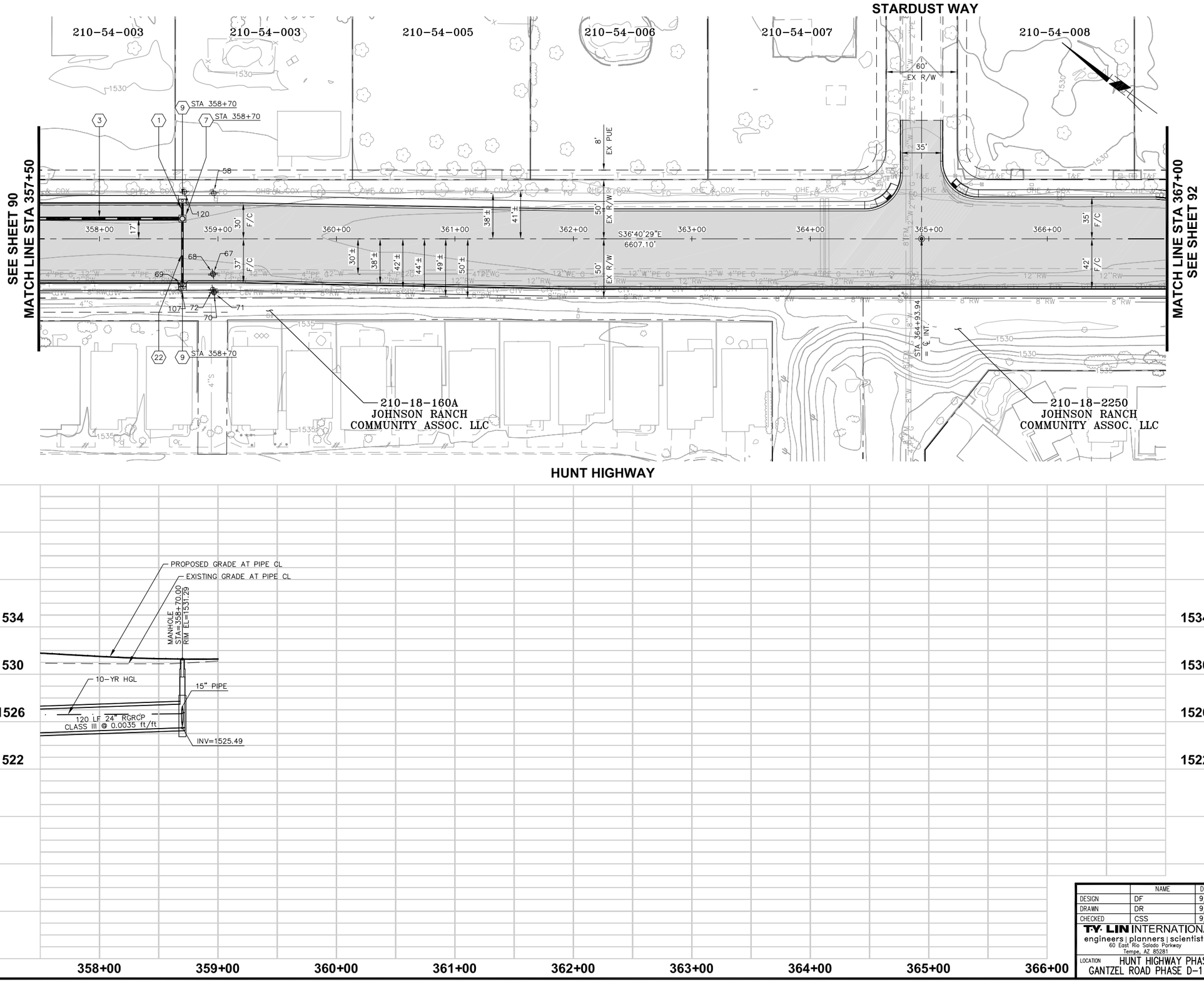
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	11.5 LF
3	FURNISH AND INSTALL 24" RGRCP, CLASS III	120 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	1 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	2 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	52.5 LF



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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
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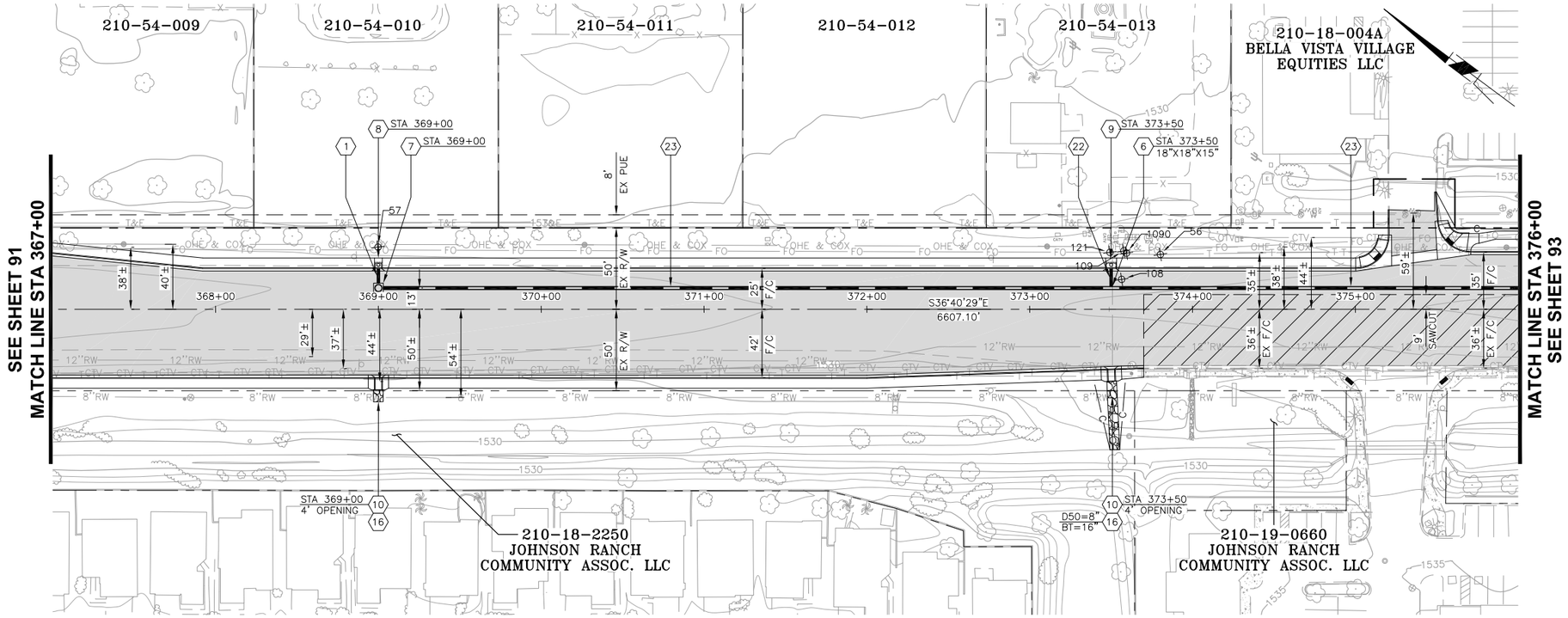
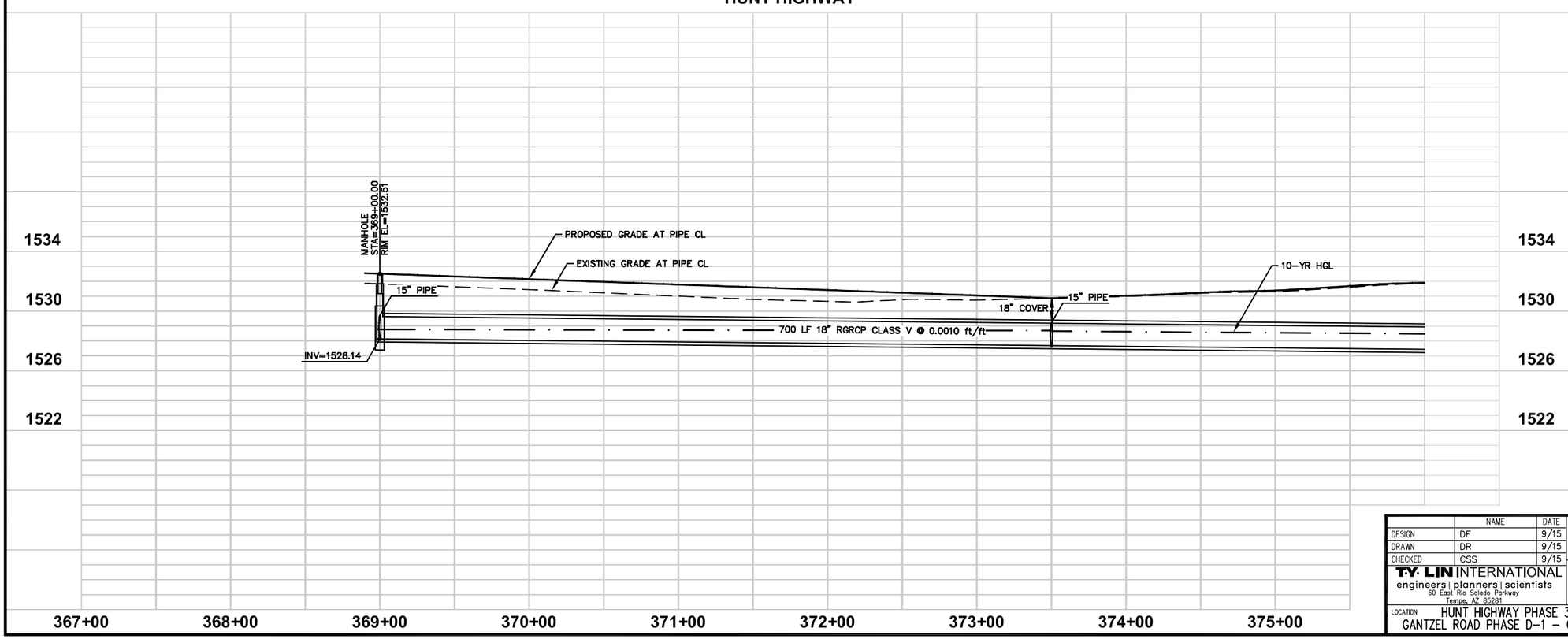


STORM DRAIN CONSTRUCTION NOTES

1	FURNISH AND INSTALL 15" RGRCP, CLASS III	10.5 LF
6	FURNISH AND INSTALL PREFABRICATED TEE, SIZE PER PLAN	1 EA
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	1 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	1 EA
9	CONSTRUCT CATCH BASIN PER MAG STD DET 531, TYPE B (5'-6" CURB OPENING)	1 EA
10	CONSTRUCT CONCRETE SCUPPER PER MAG STD DET 206	2 EA
16	FURNISH & INSTALL DUMPED RIP RAP D_{50} AND BED THICKNESS AS SHOWN ON PLANS.	2 TON
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	12 LF
23	FURNISH AND INSTALL 18" RGRCP, CLASS V	700 LF



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LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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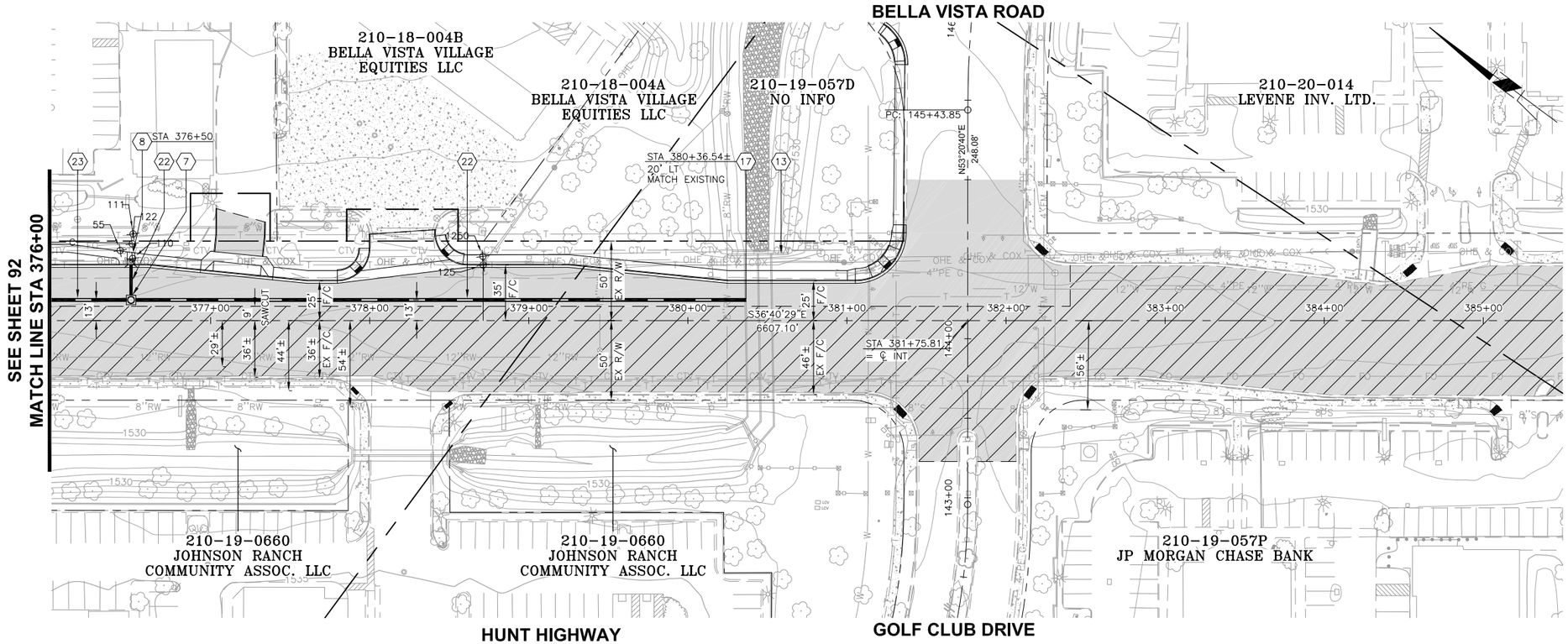

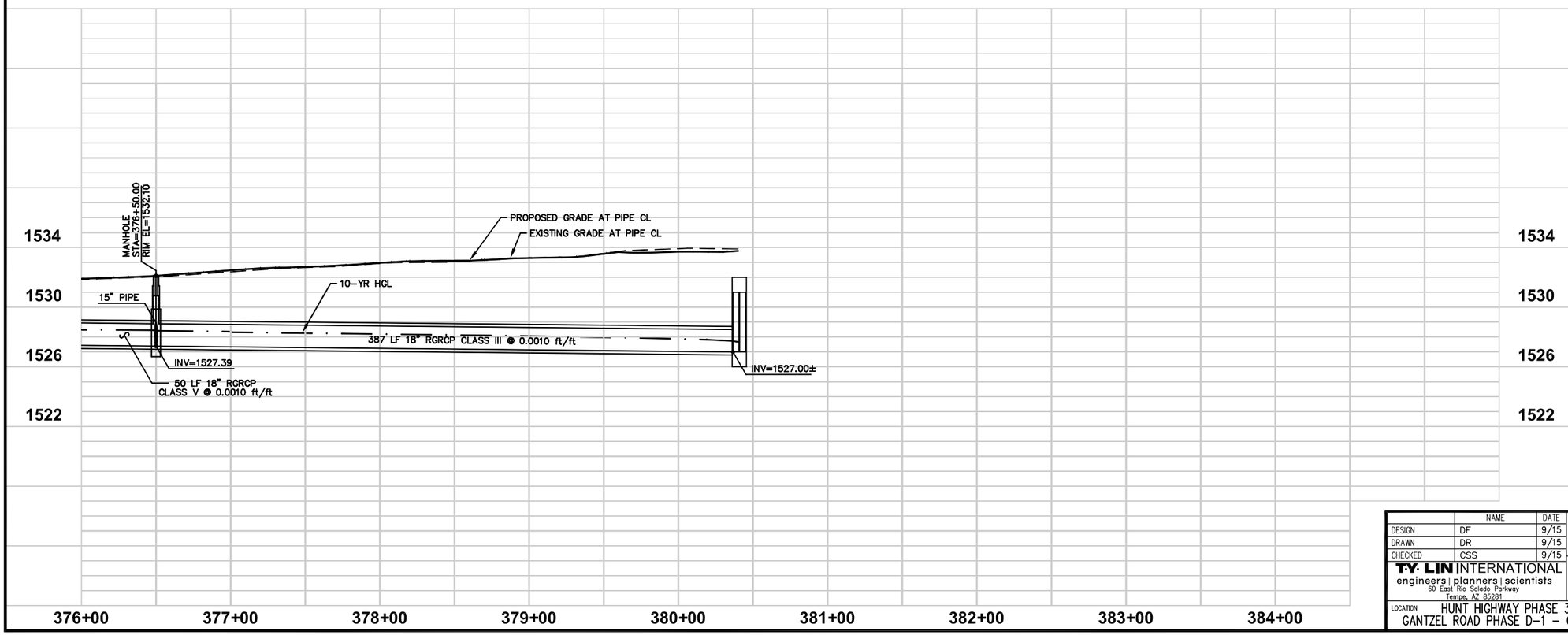

STORM DRAIN CONSTRUCTION NOTES

2	FURNISH AND INSTALL 18" RGRCP, CLASS III	387 LF
7	CONSTRUCT STORM DRAIN MANHOLE COMPLETE PER MAG STD DET 520, 522 & 423-1	1 EA
8	CONSTRUCT CATCH BASIN PER MAG STD DET 530, TYPE A (3'-6" CURB OPENING)	1 EA
13	FURNISH AND INSTALL SAFETY RAIL PER MAG STD DET 145 WITH WELD PLATES PER MAGS TD DET 206-2.	38 LF
17	CONNECT PROPOSED STORM DRAIN PIPE TO EXISTING BOX CULVERT PER DETAILS ON SHEET 110.	1 EA
22	FURNISH AND INSTALL 15" RGRCP, CLASS V	20.5 LF
23	FURNISH AND INSTALL 18" RGRCP, CLASS V	50 LF

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STORM DRAIN PLAN AND PROFILE

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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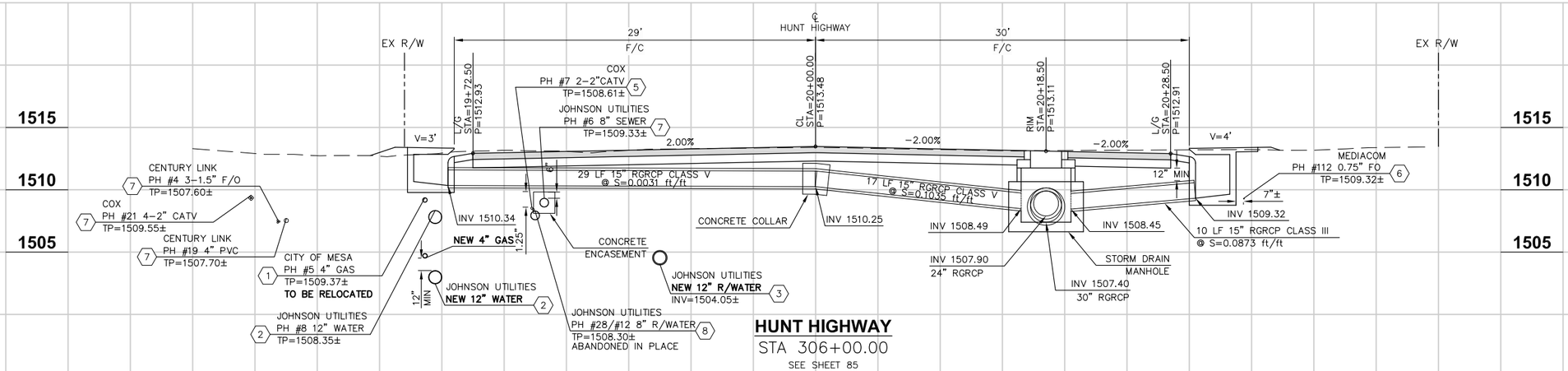
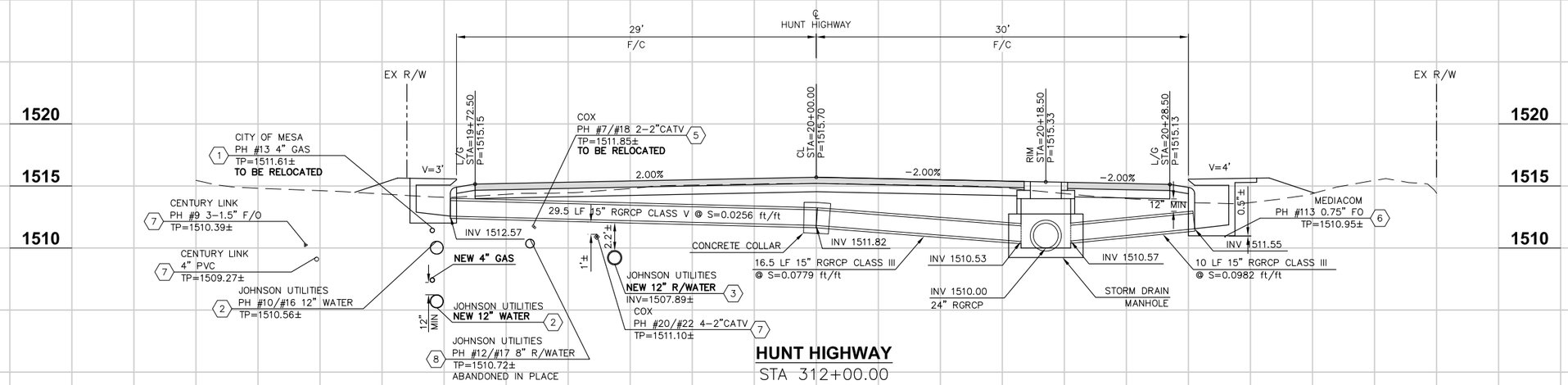
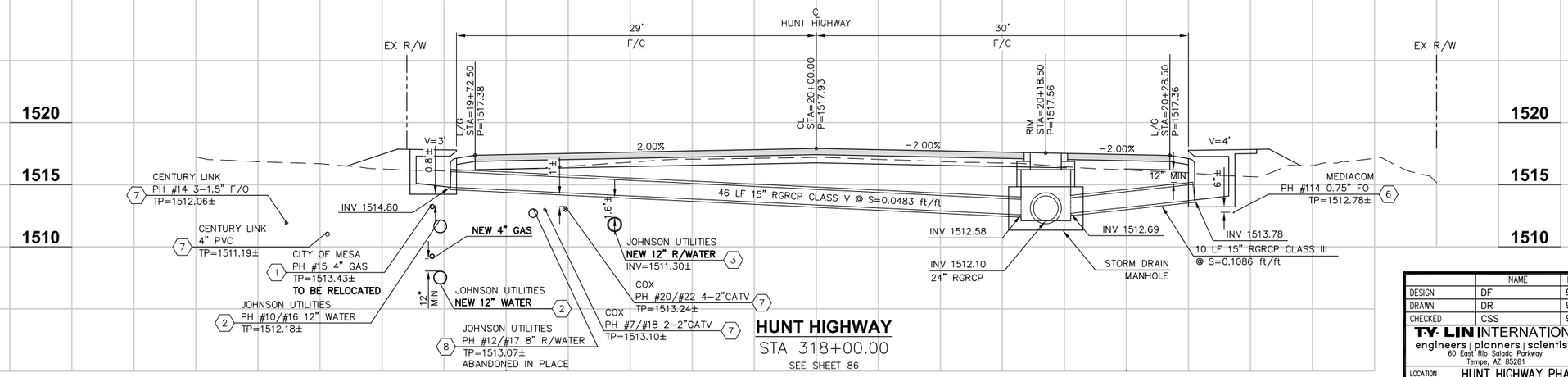


HUNT HIGHWAY
STA 306+00.00
SEE SHEET 85



HUNT HIGHWAY
STA 312+00.00
SEE SHEET 86



HUNT HIGHWAY
STA 318+00.00
SEE SHEET 86

UTILITY RELOCATION NOTES

(1) GAS LINE TO BE LOWERED BY CITY OF MESA CREWS. CONTRACTOR TO EXCAVATE & EXPOSE THE EXISTING GAS LINE AND BACKFILL AND COMPACT THE TRENCH AFTER THE RELOCATION IS COMPLETED BY CITY OF MESA CREWS. CONTRACTOR TO COORDINATE CLOSELY WITH CITY OF MESA CREWS FOR THIS WORK.

(2) DOMESTIC WATERLINE TO BE RELOCATED BY JOHNSON UTILITIES CREWS. CONTRACTOR TO EXCAVATE & EXPOSE THE EXISTING WATER LINE AND BACKFILL AND COMPACT THE TRENCH AFTER THE RELOCATION IS COMPLETED BY JOHNSON UTILITIES CREWS. CONTRACTOR TO COORDINATE CLOSELY WITH JOHNSON UTILITIES FOR THIS WORK.

(3) NEW RECLAIMED WATERLINE TO BE INSTALLED BY JOHNSON UTILITIES CREWS PER THE APPROVED PLANS & PRIOR TO CONSTRUCTION OF THIS PROJECT.

(4) CENTURY LINK FACILITIES TO BE RELOCATED BY CENTURY LINK CREWS PER THE APPROVED PLANS & PRIOR TO CONSTRUCTION OF THIS PROJECT.

(5) COX FACILITIES TO BE RELOCATED BY COX CREWS PER THE APPROVED PLANS & PRIOR TO CONSTRUCTION OF THIS PROJECT.

(6) MEDIACOM FACILITIES TO BE RELOCATED BY MEDIACOM CREWS PER THE APPROVED PLANS & PRIOR TO CONSTRUCTION OF THIS PROJECT.

(7) PROTECT IN PLACE.

(8) RECLAIMED WATERLINE ABANDONED IN PLACE. IF IN CONFLICT, CONTRACTOR SHALL REMOVE THE PORTION IN CONFLICT AND PLUG BOTH ENDS PER MAG STD. DET 427.

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CONNECTOR PIPE PROFILES

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

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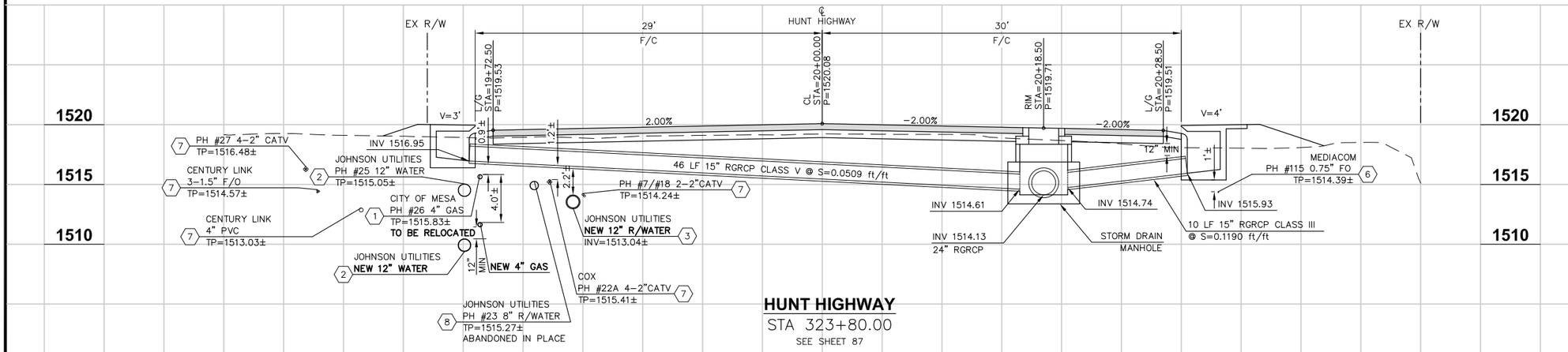

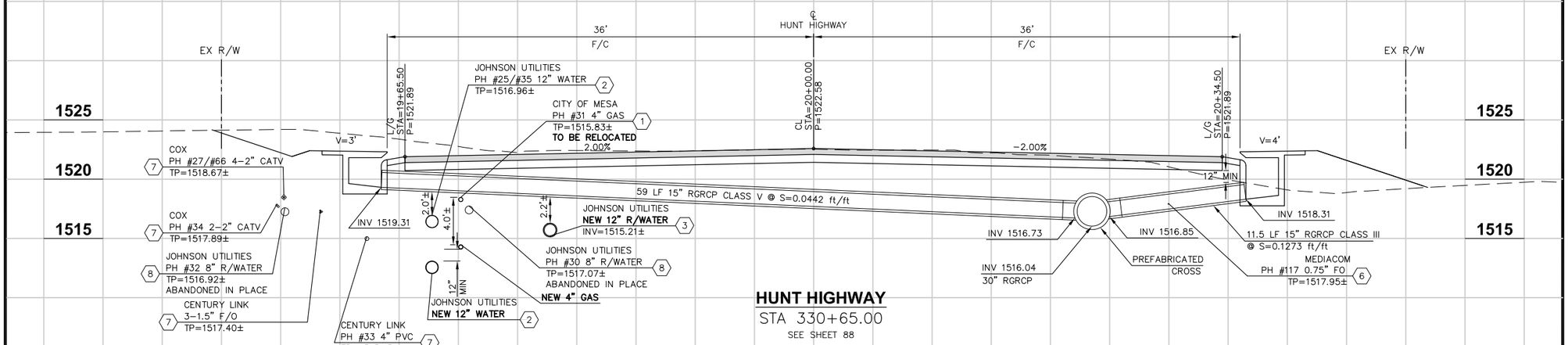

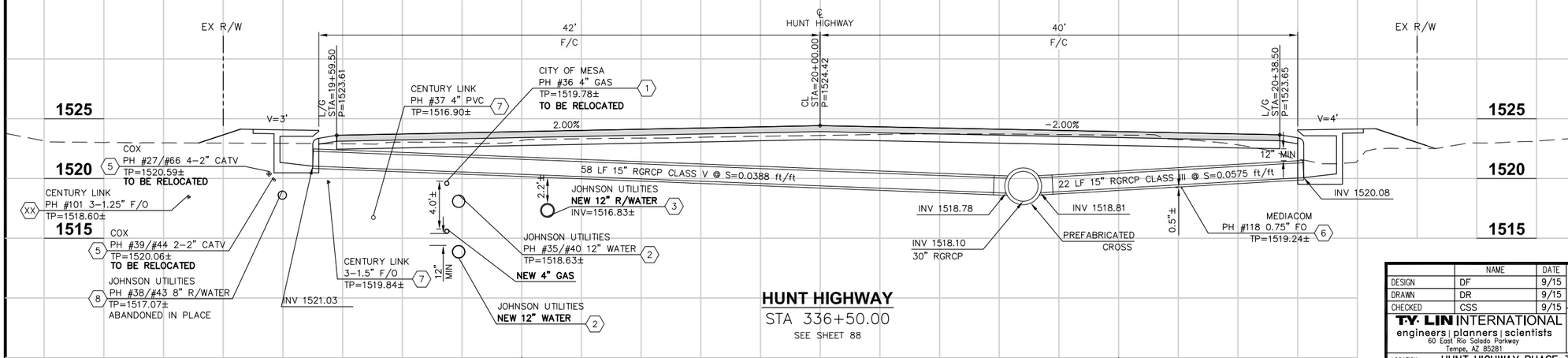

UTILITY RELOCATION NOTES

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VERT: 1" = 5'

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	NAME	DATE
DESIGN	DF	9/15
DRAWN	DR	9/15
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CONNECTOR PIPE PROFILES

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA U.S.A. Expires 9/30/17

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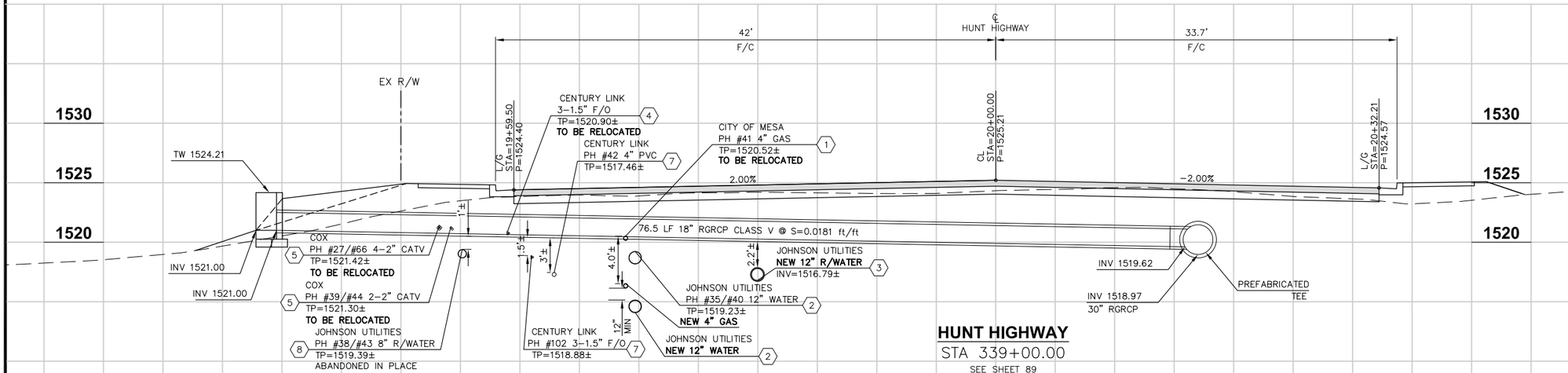
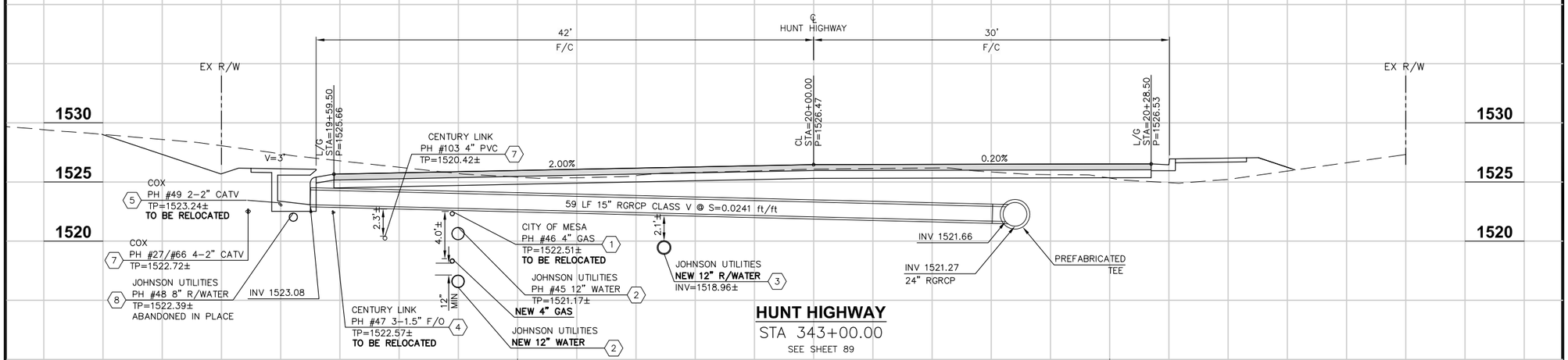
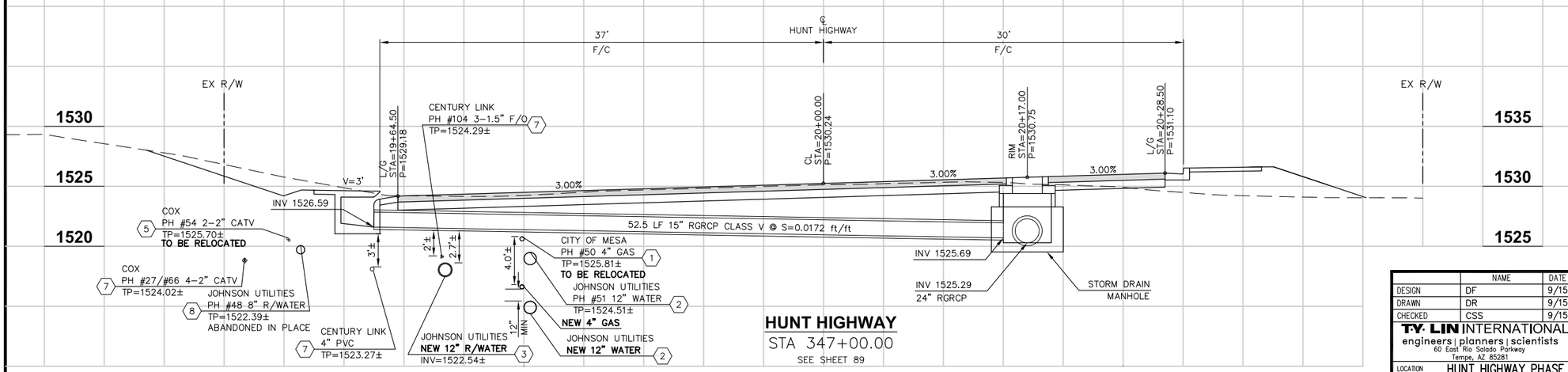
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			







UTILITY RELOCATION NOTES

1. GAS LINE TO BE LOWERED BY CITY OF MESA CREWS. CONTRACTOR TO EXCAVATE & EXPOSE THE EXISTING GAS LINE AND BACKFILL AND COMPACT THE TRENCH AFTER THE RELOCATION IS COMPLETED BY CITY OF MESA CREWS. CONTRACTOR TO COORDINATE CLOSELY WITH CITY OF MESA CREWS FOR THIS WORK.
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3. NEW RECLAIMED WATERLINE TO BE INSTALLED BY JOHNSON UTILITIES CREWS PER THE APPROVED PLANS & PRIOR TO CONSTRUCTION OF THIS PROJECT.
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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/1/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 96 OF 176

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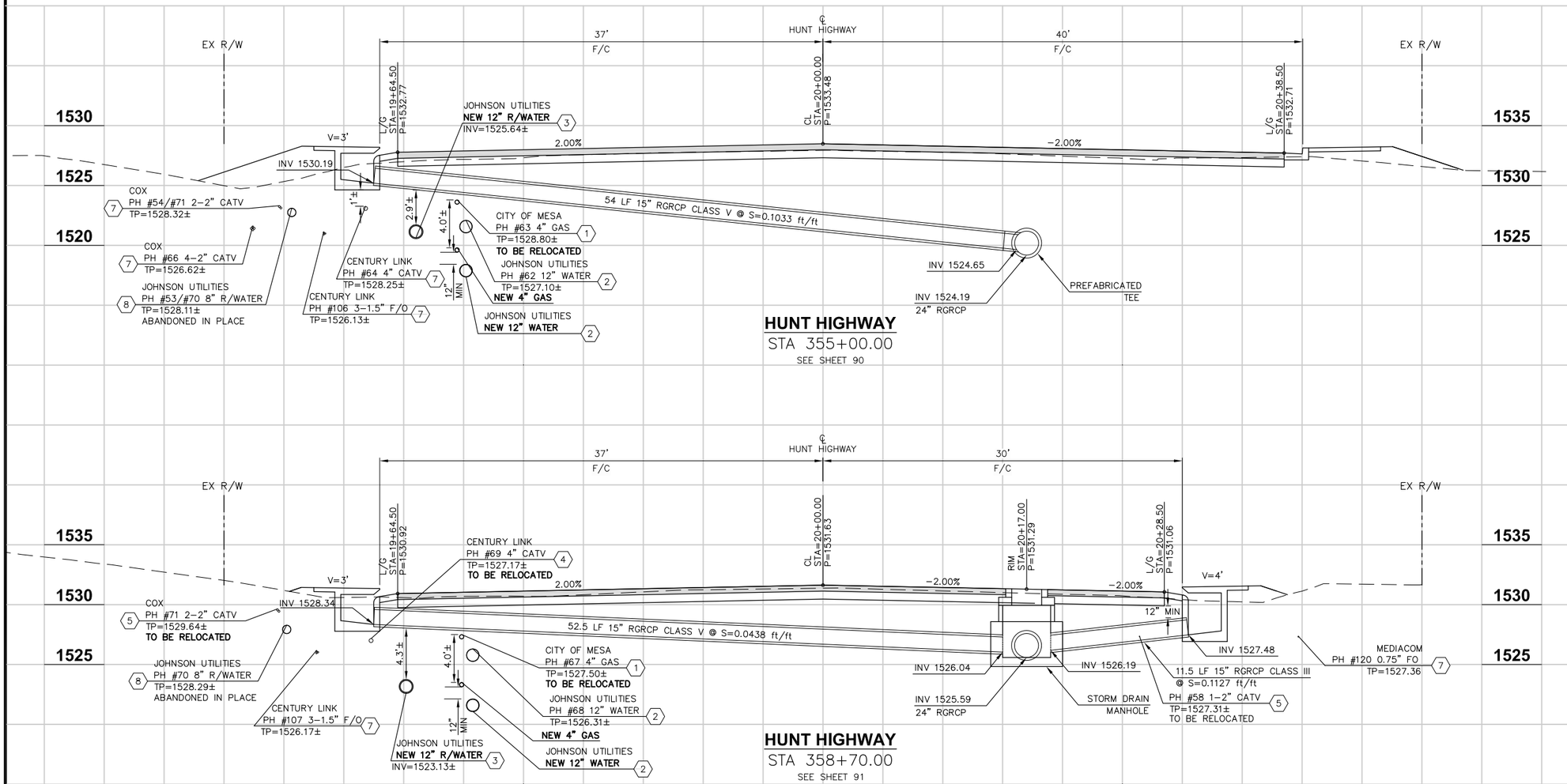
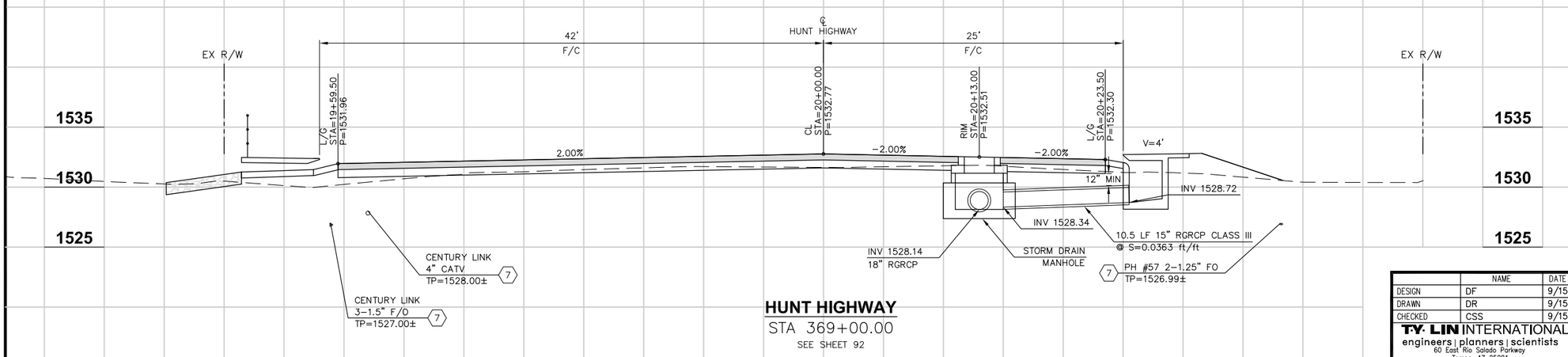
9	AZ	62952173 & 662170001			





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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 97 OF 176

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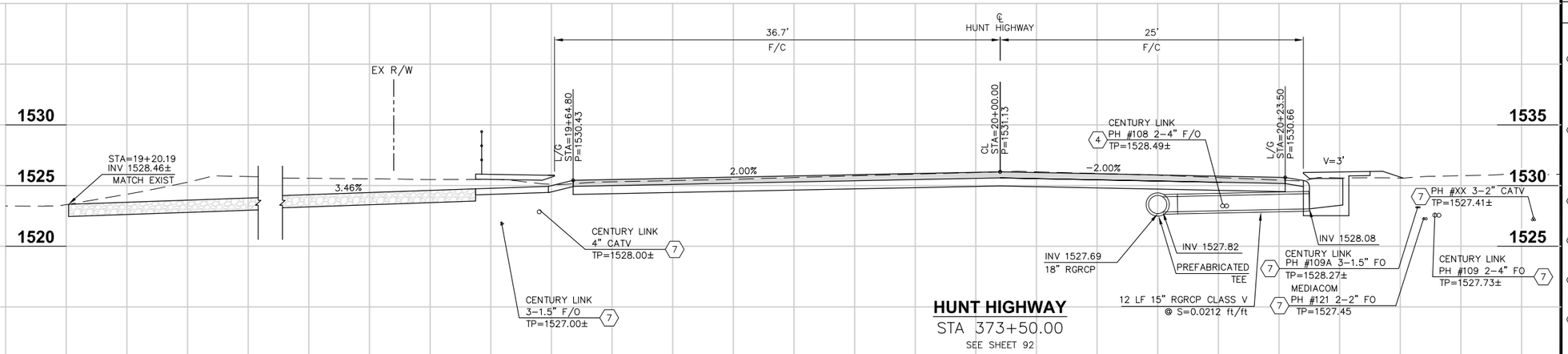

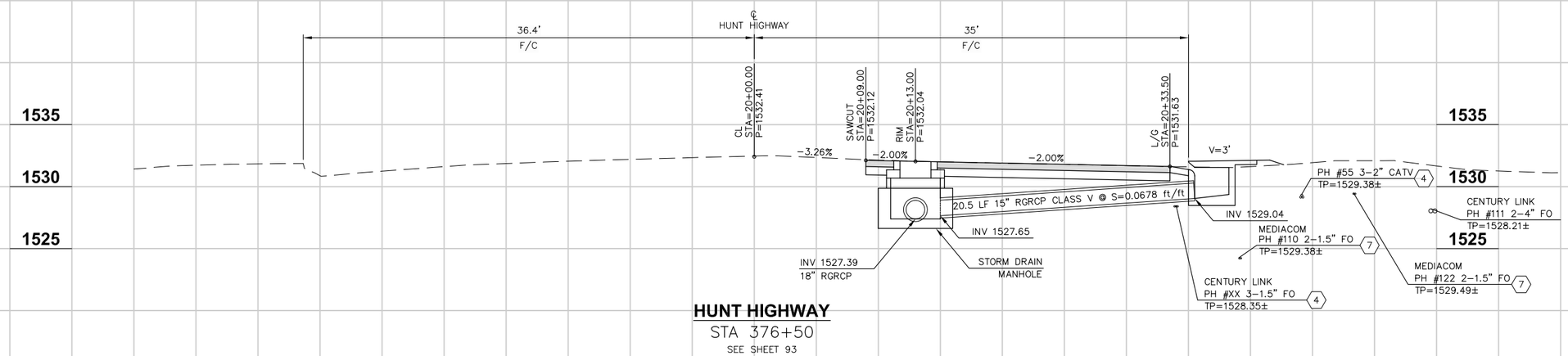

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CARLOS SANCHEZ SORIA
Date Signed 9/1/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 98 OF 176

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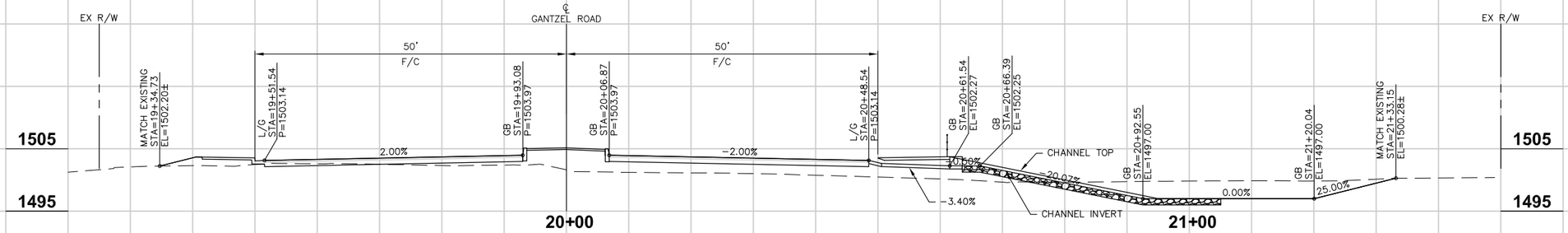
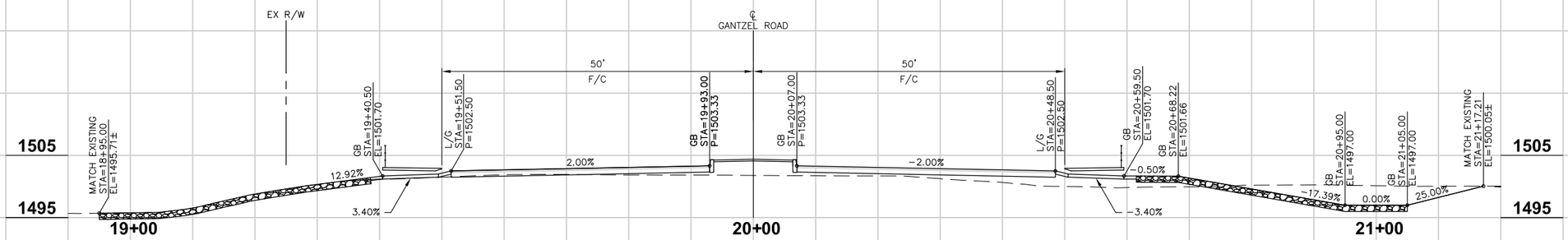
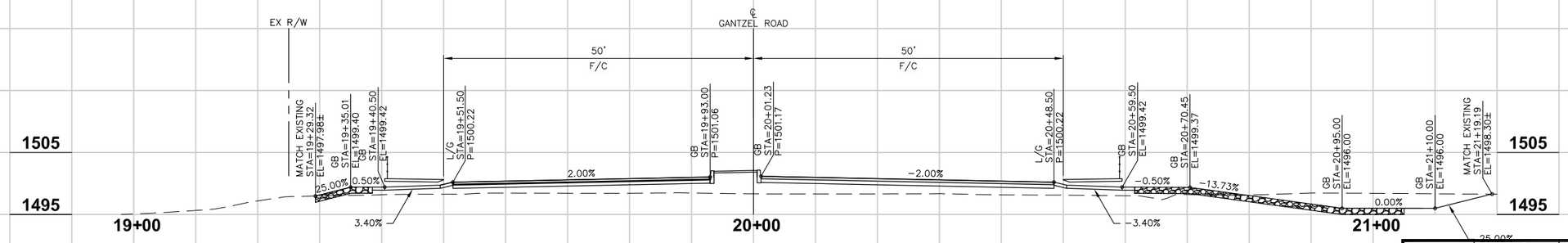


GANTZEL ROAD
STA 137+20.00
SEE SHEET 57
(LOOKING NORTH)



GANTZEL ROAD
STA 142+00.00
SEE SHEET 57
(LOOKING NORTH)



GANTZEL ROAD
STA 148+50.00
SEE SHEET 58
(LOOKING NORTH)

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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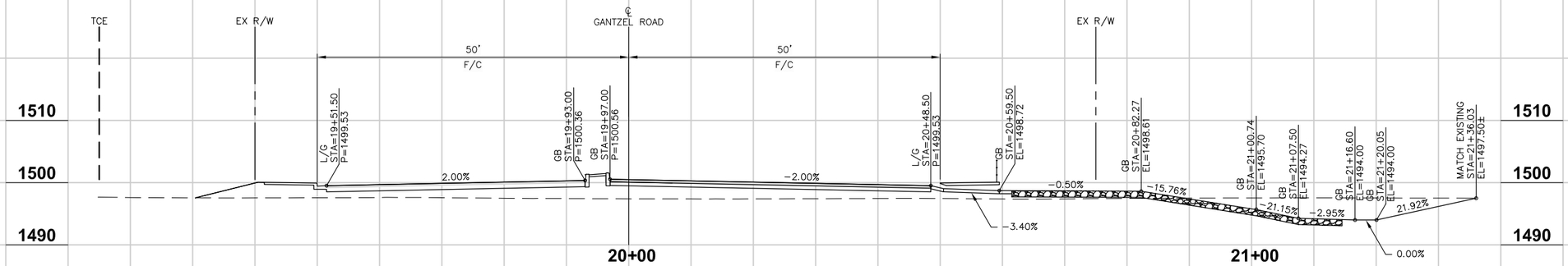
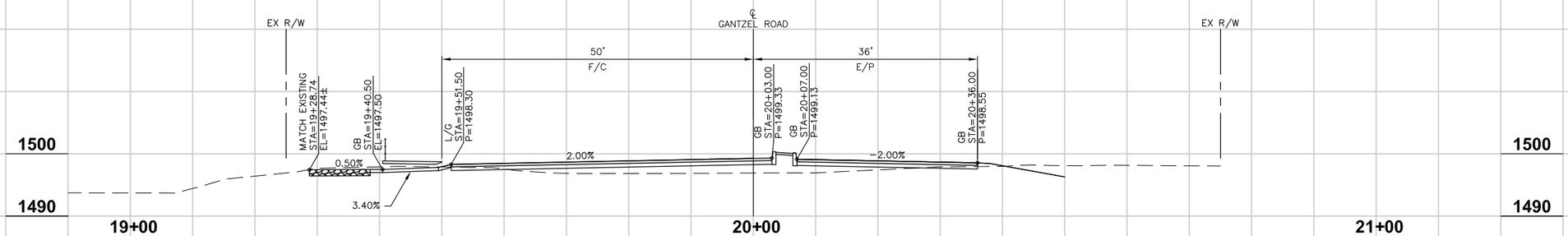
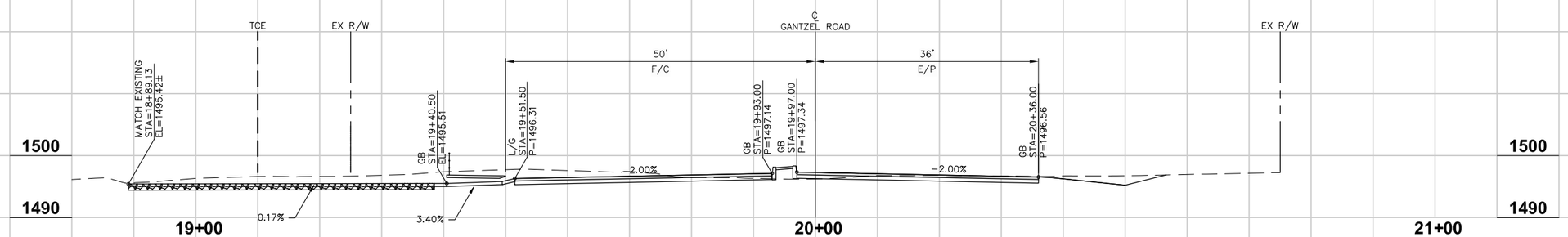
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD
STA 150+50.00
SEE SHEET 58



GANTZEL ROAD
STA 154+00.00
SEE SHEET 59
(LOOKING NORTH)



GANTZEL ROAD
STA 160+00.00
SEE SHEET 59
(LOOKING NORTH)

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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 100 OF 176

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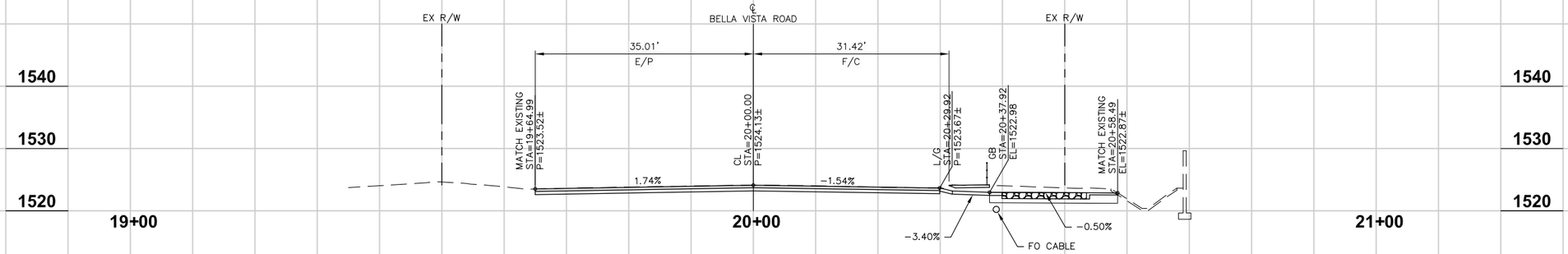
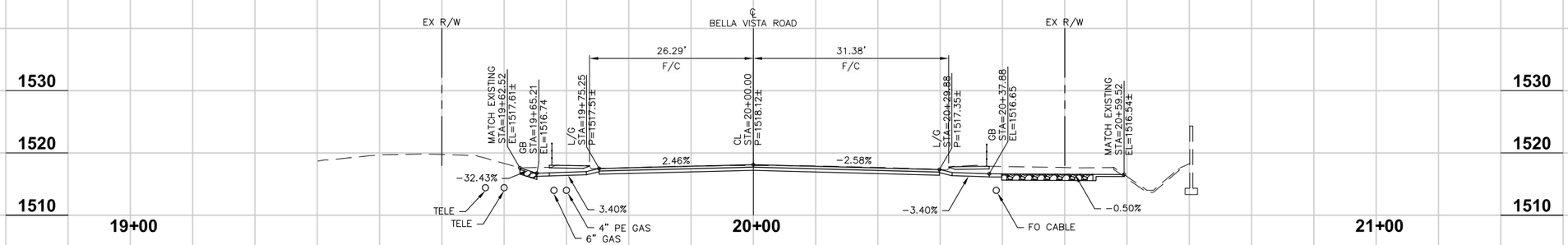


BELLA VISTA ROAD

STA 153+70.00

SEE SHEET 66

(LOOKING WEST)

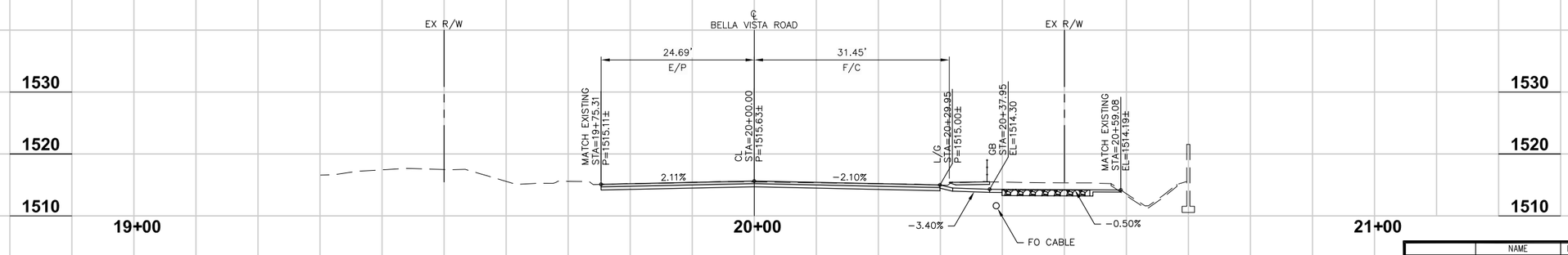


BELLA VISTA ROAD

STA 162+00.00

SEE SHEET 67

(LOOKING WEST)



BELLA VISTA ROAD

STA 165+20.00

SEE SHEET 67

(LOOKING WEST)

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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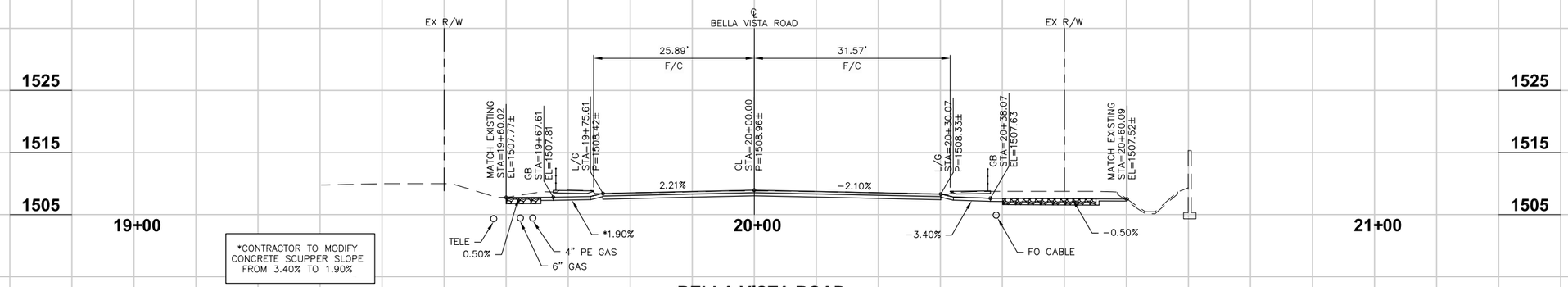
BELLA VISTA ROAD

STA 169+00.00

SEE SHEET 67
(LOOKING WEST)

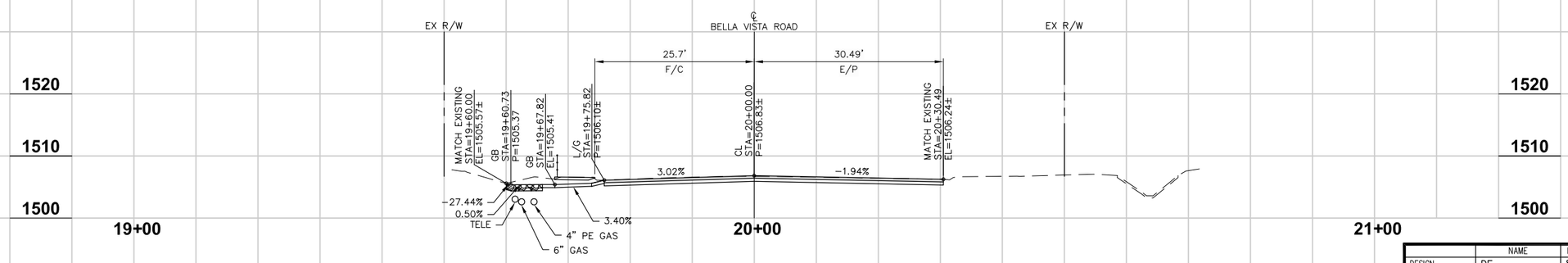


*CONTRACTOR TO MODIFY CONCRETE SCUPPER SLOPE FROM 3.40% TO 1.90%

BELLA VISTA ROAD

STA 174+00.00

SEE SHEET 68
(LOOKING WEST)



BELLA VISTA ROAD

STA 176+69.00

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Registered Professional Engineer (Civil)
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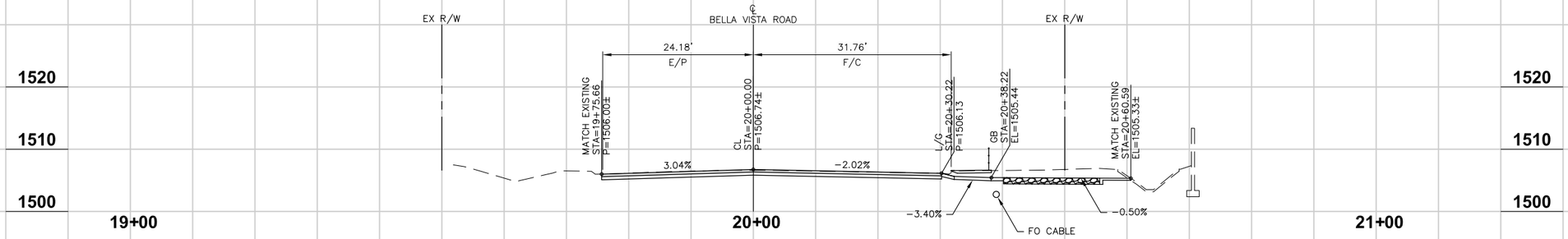

BELLA VISTA ROAD

STA 176+84.00

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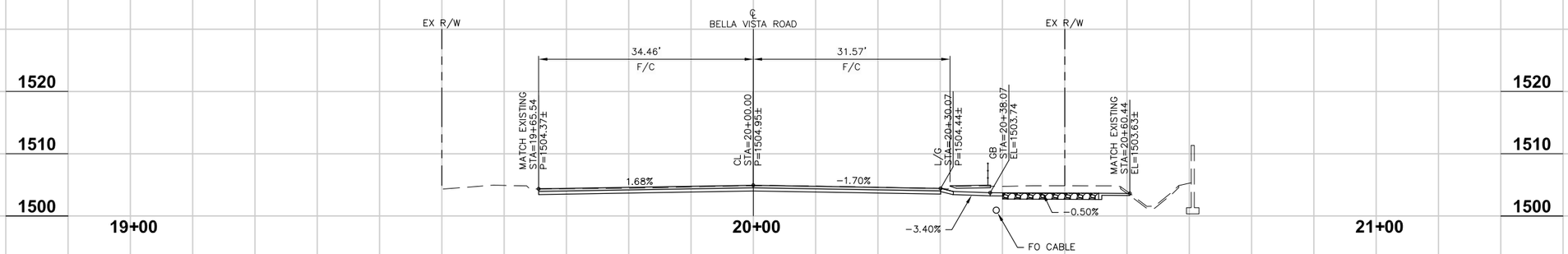

BELLA VISTA ROAD

STA 179+66.00

SEE SHEET 69
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60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SCUPPER PROFILE SHEETS

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

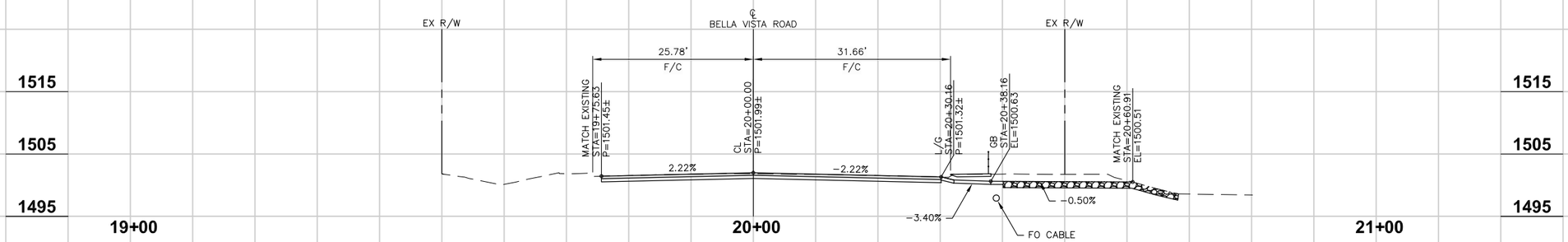
Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Drainage\2170001_99-106_Scuppers.dwg 8/27/2015 1:16:56 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

BELLA VISTA ROAD

STA 185+41.00

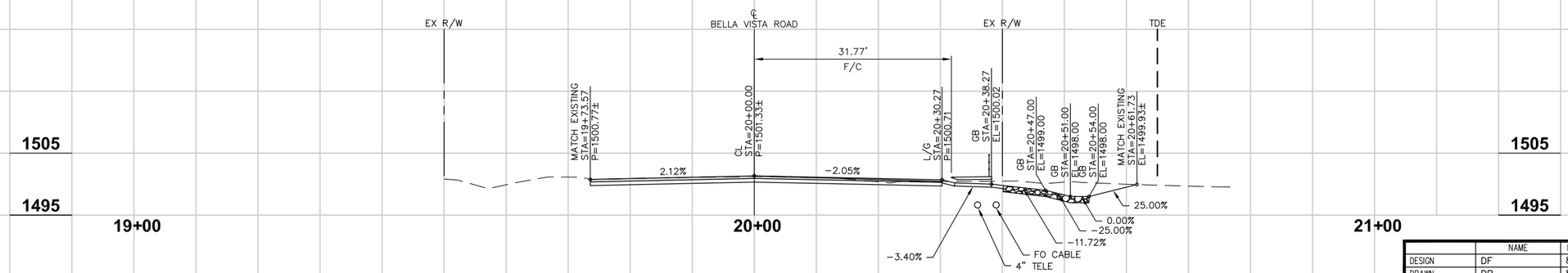
SEE SHEET 69
(LOOKING WEST)



BELLA VISTA ROAD

STA 185+85.00

SEE SHEET 69
(LOOKING WEST)



BELLA VISTA ROAD

STA 187+65.95

SEE SHEET 69
(LOOKING WEST)

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

10 0 10 20 30
SCALE: 1" = 10'
VERT: 1" = 10'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

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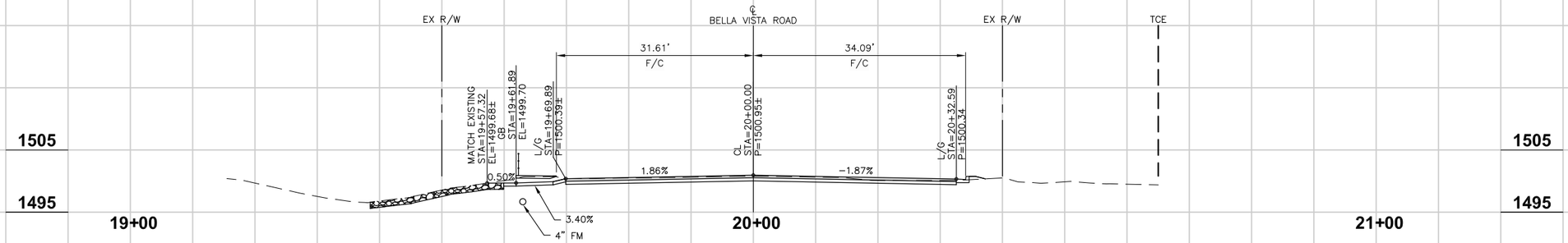
REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 46279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 104 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Drainage\2170001_99-106_Scuppers.dwg 8/27/2015 1:17:01 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

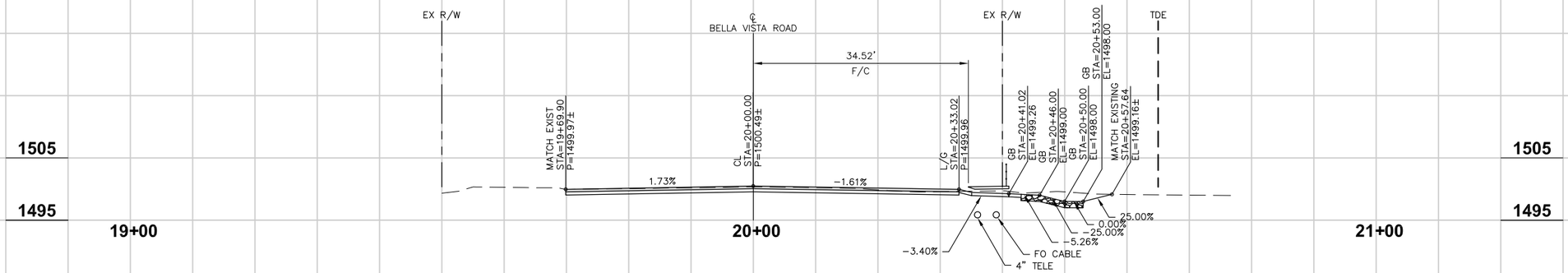
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BELLA VISTA ROAD

STA 188+94.00

SEE SHEET 69
(LOOKING WEST)



BELLA VISTA ROAD

STA 191+00.00

SEE SHEET 70
(LOOKING WEST)

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VERT: 1" = 10'

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SHEET 105 OF 176

Q:\221792.00 Gantzel Road\Cad\Deliv Files\PHASE 1\Drainage\2170001_99-106_Scuppers.dwg 8/27/2015 1:17:06 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

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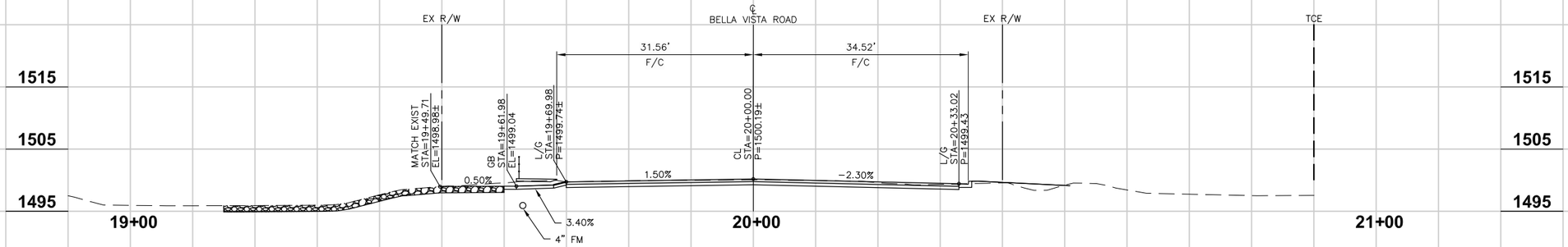
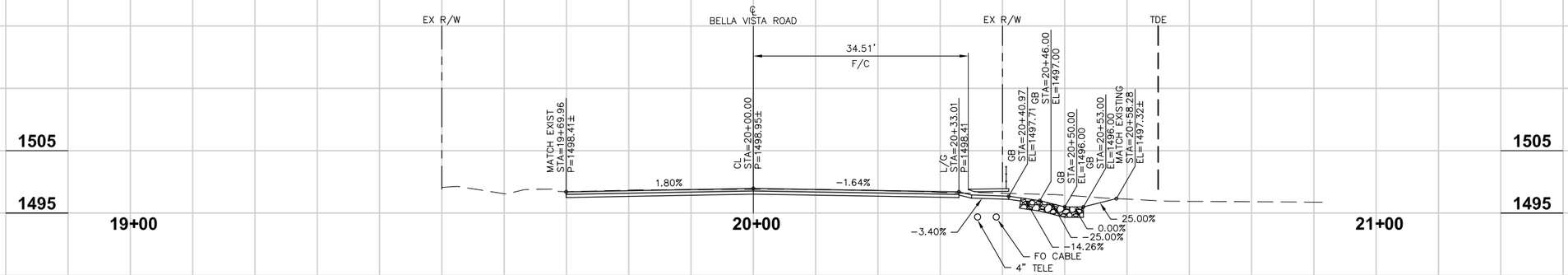
9	AZ	62952173 & 662170001			



BELLA VISTA ROAD

STA 192+15.00

SEE SHEET 70
(LOOKING WEST)



BELLA VISTA ROAD

STA 197+01.26

SEE SHEET 70
(LOOKING WEST)

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In Maricopa County: (602) 263-1100

10 0 10 20 30

SCALE: 1" = 10'
VERT: 1" = 10'

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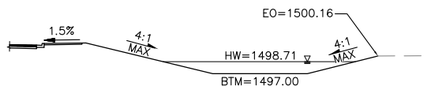
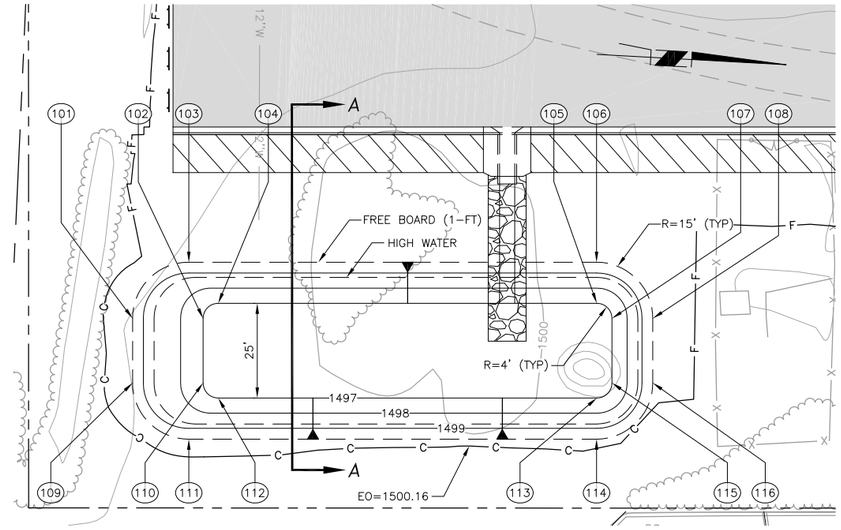


SECTION A-A

GANTZEL BASIN 1

SEE SHEETS 99–106 FOR SCUPPER PROFILES

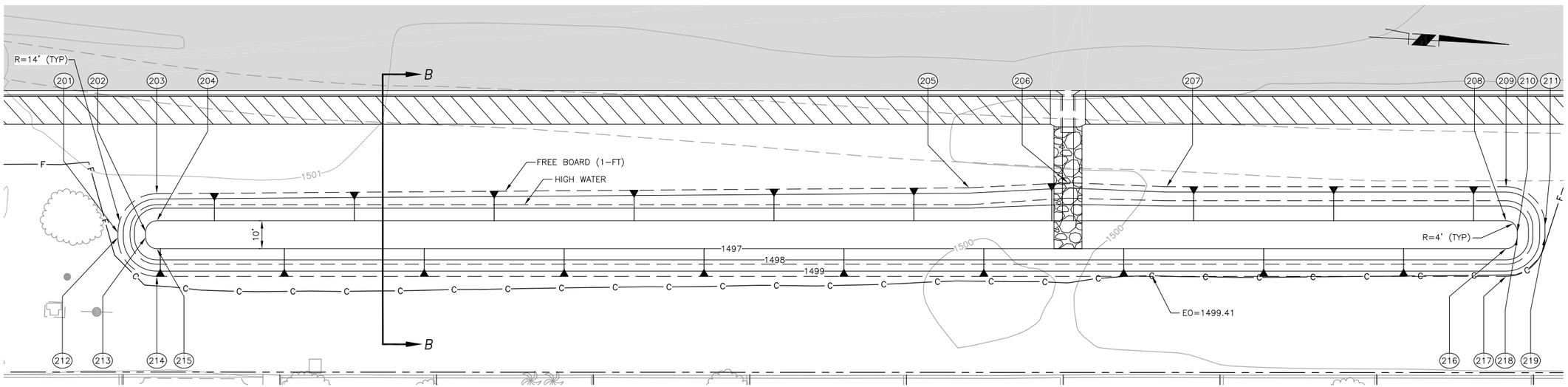


GANTZEL BASIN 1 DETAIL

SEE SHEET 57

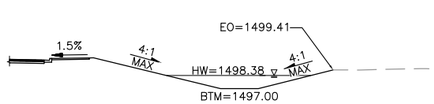
BASIN 1 CONTROL		
POINT NO.	STA	CL OFFSET
101	136+21.12	99.00' RT
102	136+39.75	99.00' RT
103	136+35.96	84.16' RT
104	136+43.75	95.00' RT
105	137+43.68	95.00' RT
106	137+43.61	84.16' RT
107	137+47.68	99.00' RT
108	137+58.45	99.00' RT
109	136+21.12	116.00' RT
110	136+39.75	116.00' RT
111	136+35.96	130.84' RT
112	136+43.75	120.00' RT
113	137+43.68	120.00' RT
114	137+43.61	130.84' RT
115	137+47.68	116.00' RT
116	137+58.45	116.00' RT

BASIN 2 CONTROL		
POINT NO.	STA	CL OFFSET
201	138+60.49	99.24' RT
202	138+70.39	99.00' RT
203	138+74.35	85.34' RT
204	138+74.39	95.00' RT
205	141+64.68	83.24' RT
206	142+00.00	81.42' RT
207	142+35.30	82.86' RT
208	143+56.62	95.00' RT
209	143+56.62	82.86' RT
210	143+60.62	99.00' RT
211	143+70.52	96.76' RT
212	138+60.49	101.00' RT
213	138+70.39	101.00' RT
214	138+74.39	114.90' RT
215	138+74.39	105.00' RT
216	143+56.62	105.00' RT
217	143+56.62	114.90' RT
218	143+60.62	101.00' RT
219	143+70.52	101.00' RT



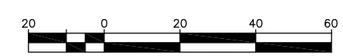
GANTZEL BASIN 2 DETAIL

SEE SHEET 57 & 58



SECTION B-B

GANTZEL BASIN 2



SCALE: 1" = 20'

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ENGINEERING BRANCH
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RETENTION BASIN DETAIL SHEET

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 107 OF 176

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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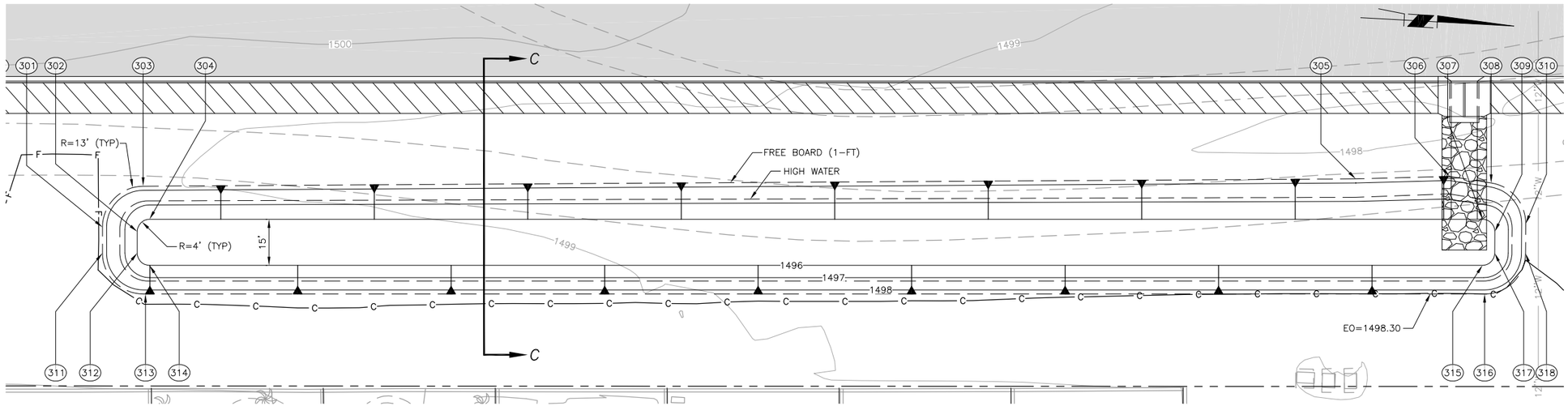


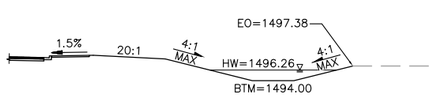
GANTZEL BASIN 3 DETAIL

SEE SHEET 58

SECTION C-C

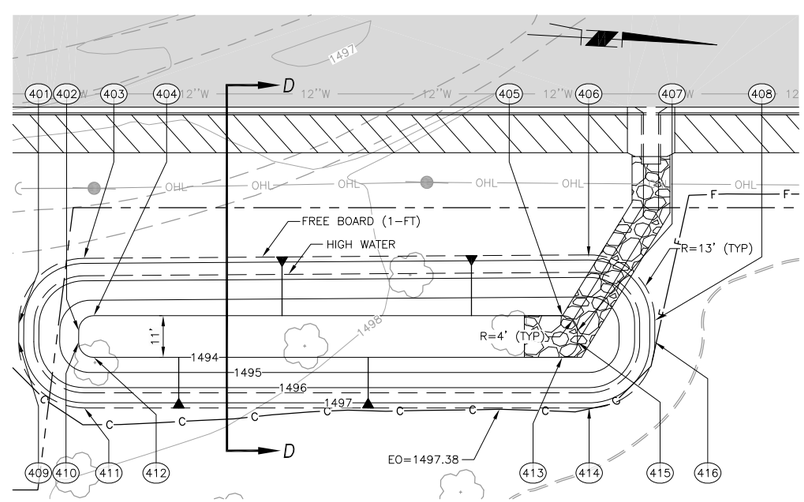
GANTZEL BASIN 3

SEE SHEETS 99–106 FOR SCUPPER PROFILES



SECTION D-D

GANTZEL BASIN 4



GANTZEL BASIN 4 DETAIL

SEE SHEET 58

BASIN 3 CONTROL

POINT NO.	STA	CL OFFSET
301	144+06.40	97.57' RT
302	144+17.73	99.00' RT
303	144+19.66	84.23' RT
304	144+21.73	95.00' RT
305	148+14.61	81.85' RT
306	148+45.25	81.05' RT
307	148+55.95	95.00' RT
308	148+58.75	83.16' RT
309	148+59.95	99.03' RT
310	148+70.02	96.44' RT
311	144+06.40	106.00' RT
312	144+17.73	106.00' RT
313	144+19.74	119.34' RT
314	144+21.73	110.00' RT
315	148+55.92	110.00' RT
316	148+56.61	119.34' RT
317	148+59.90	106.03' RT
318	148+69.95	106.09' RT

BASIN 4 CONTROL

POINT NO.	STA	CL OFFSET
401	148+83.10	105.58' RT
402	148+98.92	107.47' RT
403	149+00.32	88.36' RT
404	149+02.92	103.50' RT
405	150+26.57	103.50' RT
406	150+33.54	87.46' RT
407	150+41.56	106.54' RT
408	150+51.00	104.77' RT
409	148+83.06	110.38' RT
410	148+98.90	110.47' RT
411	149+00.40	127.84' RT
412	149+02.90	114.50' RT
413	150+26.57	114.50' RT
414	150+33.67	127.84' RT
415	150+30.57	110.49' RT
416	150+51.01	110.47' RT

20 0 20 40 60

SCALE: 1" = 20'

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 108 OF 176

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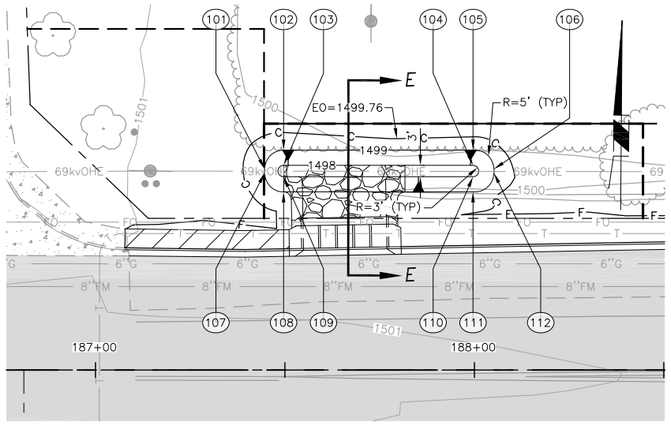
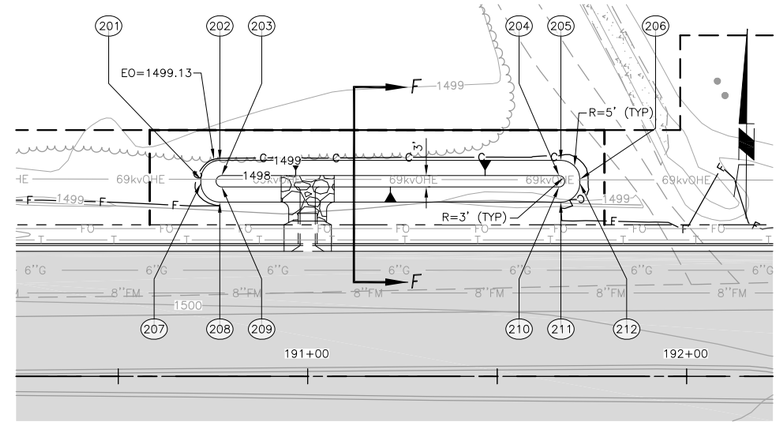
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BELLA VISTA FIRST FLUSH BASIN 5 DETAIL

SEE SHEET 69

BASIN 5 CONTROL		
POINT NO.	STA	CL OFFSET
101	187+44.64	53.00' LT
102	187+49.64	58.00' LT
103	187+49.64	54.00' LT
104	187+99.64	54.00' LT
105	188+00.14	58.00' LT
106	188+05.14	53.00' LT
107	187+44.64	52.00' LT
108	187+49.64	47.00' LT
109	187+49.64	51.00' LT
110	187+99.64	51.00' LT
111	188+00.14	47.00' LT
112	188+05.14	52.00' LT

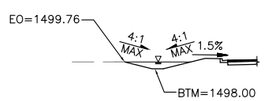


BELLA VISTA FIRST FLUSH BASIN 6 DETAIL

SEE SHEET 70

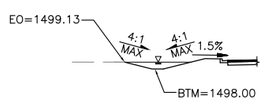
BASIN 6 CONTROL		
POINT NO.	STA	CL OFFSET
201	190+71.81	52.00' LT
202	190+76.81	57.00' LT
203	190+77.31	53.00' LT
204	191+66.31	53.00' LT
205	191+66.81	57.00' LT
206	191+71.81	52.00' LT
207	190+71.81	51.00' LT
208	190+76.81	46.00' LT
209	190+77.31	50.00' LT
210	191+66.31	50.00' LT
211	191+66.81	46.00' LT
212	191+71.81	51.00' LT

SEE SHEETS 99–106
FOR SCUPPER PROFILES



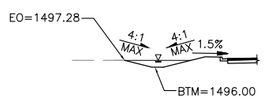
SECTION E-E

BELLA VISTA BASIN 5



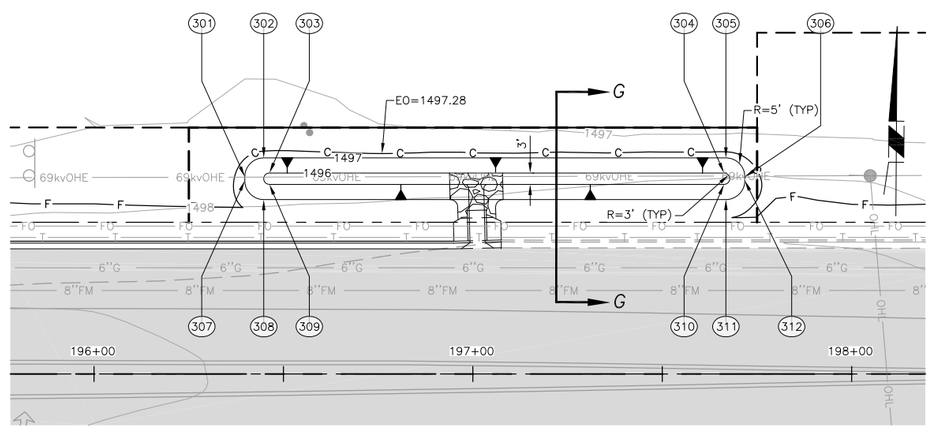
SECTION F-F

BELLA VISTA BASIN 6



SECTION G-G

BELLA VISTA BASIN 7



BELLA VISTA FIRST FLUSH BASIN 7 DETAIL

SEE SHEET 70

BASIN 7 CONTROL		
POINT NO.	STA	CL OFFSET
301	196+39.81	52.00' LT
302	196+44.81	57.00' LT
303	196+46.31	53.00' LT
304	197+66.31	53.00' LT
305	197+66.81	57.00' LT
306	197+71.81	52.00' LT
307	196+39.81	51.00' LT
308	196+44.81	46.00' LT
309	196+46.31	50.00' LT
310	197+66.31	50.00' LT
311	197+66.81	46.00' LT
312	197+71.81	51.00' LT

20 0 20 40 60

SCALE: 1" = 20'

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9	AZ	62952173 & 662170001			

GENERAL NOTES:

1. CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE COUNTY OF ANY DISCREPANCIES.

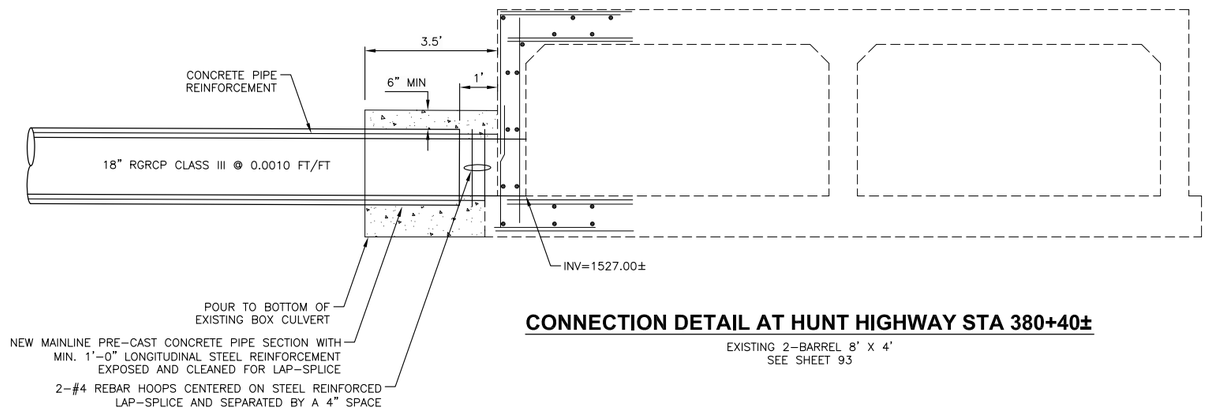
2. THE NEW CONNECTION SHALL BE CONCRETE ENCASED AS SHOWN ON THIS DETAIL WITH MAG CLASS 'A' CONCRETE. THE ENCASEMENT SHALL EXTEND AS SHOWN ON THIS DETAIL.

3. REINFORCING STEEL SHALL CONFORM TO ASTM SPECIFICATION A615, GRADE 60.

4. ALL REINFORCING STEEL BENDS AND HOOKS SHALL MEET THE REQUIREMENTS OF AASHTO ARTICLE 8.23.

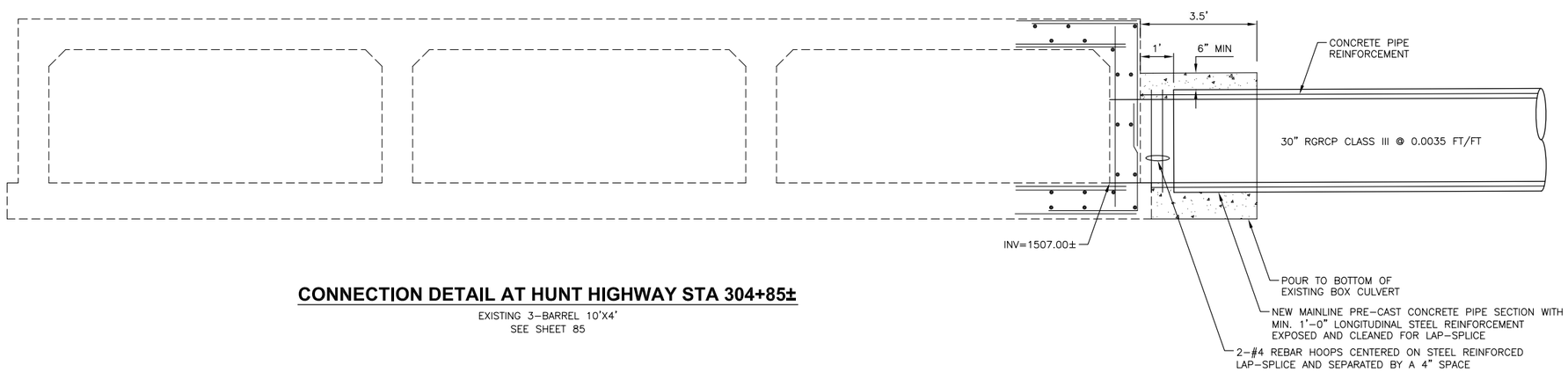
5. THE LONGITUDINAL STEEL ON THE END OF THE NEW STORM DRAIN LATERAL STUB SHALL BE PREPARED TO EXPOSE A MINIMUM 1'-0" OF CLEAN STEEL REINFORCEMENT FOR LAP-SPLICING AROUND THE PERIPHERY OF THE NEW STUB. THE EXPOSED STEEL OF THE EXISTING BOX CULVERT AND THE NEW STUB SHALL BE LAP-SPLICED A MINIMUM OF 1'-0" AND REINFORCE-TIED WITH 2-#4 REBAR HOOPS.

6. A CIRCULAR OPENING IN THE EXISTING BOX CULVERT SHALL BE CUT TO MATCH THE INSIDE DIAMETER OF THE NEW LATERAL, NORMAL TO THE PIPE SURFACE, WITHOUT DAMAGING STEEL. THE EXPOSED STEEL IN THE CURCULAR OPENING OF THE EXISTING BOX CULVERT SHALL BE CUT TO PROVIDE RELATIVELY EQUAL-LENGTH REINFORCING STUBS AND BENT TO A HORIZONTAL POSITION IN PREPARATION FOR CONNECTION.



CONNECTION DETAIL AT HUNT HIGHWAY STA 380+40±

EXISTING 2-BARREL 8' X 4'
SEE SHEET 93



CONNECTION DETAIL AT HUNT HIGHWAY STA 304+85±

EXISTING 3-BARREL 10'X4'
SEE SHEET 85

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

BOX CULVERT CONNECTION DETAIL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 - GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 - OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

PINAL COUNTY

SIGNING & STRIPING NOTES:

A. CONTRACTOR SHALL OBTAIN A PINAL COUNTY RIGHT-OF-WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT-OF-WAY. CONTACT PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST 7 WORKING DAYS PRIOR TO WORK.

B. ALL SIGNING INSTALLED WITHIN THE COUNTY'S RIGHT-OF-WAY SHALL BE INSTALLED BY AN INDIVIDUAL THAT HAS CURRENT CERTIFICATION FROM THE INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) OR THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), OR EQUIVALENT. EQUIVALENCY SHALL BE SUBMITTED FOR REVIEW PRIOR TO BEING ACCEPTED BY THE COUNTY.

C. A PRE-INSTALLATION MEETING WITH THE PUBLIC WORKS INSPECTION SECTION WILL BE REQUIRED PRIOR TO INSTALLING ANY SIGNS OR POSTS WITHIN COUNTY RIGHT-OF-WAY. PERMITS MAY BE ISSUED PRIOR TO THIS MEETING BUT WILL NOT BE VALID UNTIL AFTER THE PRE-INSTALLATION MEETING IS HELD. TO SCHEDULE A PRE-INSTALLATION MEETING CONTACT THE INSPECTION SECTION (2) BUSINESS DAYS PRIOR.

D. ALL SIGNING AND PAVEMENT MARKING SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS SUPPLEMENTED BY THE ARIZONA DEPARTMENT OF TRANSPORTATION WITH REGARD TO SIZE, COLOR, SHAPE, AND PLACEMENT.

E. STREET NAME SIGN INSTALLATION – STREET NAME SIGNS SHALL BE INSTALLED AT EACH INTERSECTION. IF STREET NAME SIGNS ARE TO BE INSTALLED ON AN EXISTING OR PROPOSED STREET LIGHT POLE, EACH SIGN SHALL BE INSTALLED ON A SEPARATE BRACKET. FOR STREET NAME SIGN BLADES THAT ARE 23" AND UNDER, A 12" BRACKET SHALL BE USED. FOR BLADES THAT ARE 24" TO 35", AN 18" BRACKET SHALL BE USED. FOR BLADES THAT ARE 36" AND ABOVE, A 24" BRACKET SHALL BE USED.

F. THE CONTRACTOR SHALL ALLOW THE CONCRETE IN THE POSTHOLES TO CURE FOR AT LEAST 24-HOURS PRIOR TO STANDING THE POLES.

G. ANY SIGNING THAT IS TO BE RELOCATED SHALL BE REINSTALLED AS DIRECTED BY THE PINAL COUNTY PUBLIC WORKS TRAFFIC SECTION.

H. ANY SIGN, EXCEPT STOP SIGNS AND STREET NAME SIGNS, THAT IS TO BE INSTALLED WITHIN 25 FEET OF AN EXISTING STREET LIGHT POLE SHALL BE INSTALLED ON THAT POLE AND NOT ON A SEPARATE SUPPORT. SIGNS THAT NEED TO BE REMOVED DURING CONSTRUCTION SHALL BE DONE SO BY THE CONTRACTOR AT THEIR EXPENSE.

I. THE CONTRACTOR SHALL ENSURE THAT AT NO TIME A TRAFFIC SIGN IS INSTALLED IN SUCH A WAY AS TO BE BLOCKED BY TREES OR VEGETATION. IN THESE CASES THE CONTRACTOR SHALL CONTACT THE PINAL COUNTY PUBLIC WORKS TRAFFIC SECTION TO PROVIDE AN ALTERNATE LOCATION FOR THE INSTALLATION OF SIGNING IN QUESTIONS.

J. SIGNING QUANTITIES AND INSTALLATION LOCATIONS ARE SUBJECT TO CHANGE AT THE TIME OF INSTALLATION BASED UPON CURRENT ACCEPTED PRACTICE.

K. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE ARIZONA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS UNLESS OTHERWISE SPECIFIED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, (LATEST EDITIONS), OR AS NOTED ON THE PLANS.

L. THE CONTRACTOR SHALL SPOT MARK THE ENTIRE PROJECT BEFORE APPLYING ANY PAINT. WHEN THE SPOTTING IS COMPLETE THE CONTRACTOR SHALL CONTACT THE PINAL COUNTY PUBLIC WORKS INSPECTION SECTION, TO MAKE ARRANGEMENTS FOR INSPECTION PRIOR TO APPLYING ANY PAINT (5 BUSINESS DAYS ADVANCE NOTICE IS REQUIRED).

M. ANY PAVEMENT MARKINGS APPLIED PRIOR TO FIELD INSPECTION BY THE PINAL COUNTY INSPECTION SECTION SHALL BE REMOVED AND RE-STRIPED AT THE EXPENSE OF THE CONTRACTOR.

N. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET 1 FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE COUNTY INSPECTOR.

O. THE DIMENSIONS SHOWN TO PAVEMENT STRIPING ARE TO THE CENTER OF THE STRIPING OR, IN THE CASE OF DOUBLE STRIPING, TO THE CENTER OF THE DOUBLE STRIPING.

P. THE FINAL STRIPING SHALL BE 90 MIL (0.090 INCH) THICK HOT-SPRAYED THERMOPLASTIC REFLECTORIZED STRIPING. LINE WIDTHS SHALL BE IN ACCORDANCE WITH ADOT STANDARD DRAWINGS.

Q. THE PAVEMENT ARROW, SYMBOLS AND LEGEND SHALL BE WHITE 90 MIL (0.090 INCH) THICK ALKYD EXTRUDED THERMOPLASTIC REFLECTORIZED MARKINGS. TURN LANE ARROWS SHALL BE LOCATED IN ACCORDANCE WITH ADOT STANDARD DRAWING M-11.

SIGNING & STRIPING NOTES CONTINUED:

R. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE INSPECTOR, BY SWEEPING AND AIR-JET BLOWING, IMMEDIATELY PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROADWAY SURFACE SHALL BE DRY AND THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 50 DEGREES F FOR THE PLACEMENT OF THERMOPLASTIC MARKINGS.

S. ALL RETRO-REFLECTIVE RAISED PAVEMENT MARKERS SHALL HAVE AN ABRASION RESISTANT COATING ON THE FACE OF THE PRISMATIC REFLECTORS AND SHALL CONFORM TO THE DETAILS OF STANDARD DRAWING M-19. THEY SHALL BE INSTALLED WITH A BITUMINOUS ADHESIVE WHICH IS ON THE ADOT APPROVED PRODUCTS LIST.

T. WHERE RETRO-REFLECTIVE RAISED PAVEMENT MARKERS ARE PLACED ALONG SOLID STRIPING, THE NEAREST EDGE OF EACH MARKER SHALL BE OFFSET 2 INCHES FROM THE NEAREST EDGE OF THE STRIPING.

U. CONTRACTOR IS RESPONSIBLE FOR BLUE STAKE MARKING PRIOR TO INSTALLATION OF ANY SIGN POST.

V. ALL SIGNS SHALL BE IN COMPLIANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), THE ADOT SIGNING AND MARKING STANDARD DRAWINGS, AND THE TRAFFIC ENGINEERING MANUAL OF APPROVED SIGNS. ALL SIGNS SHALL BE FABRICATED OF FLAT SHEET ALUMINUM WITH DIRECT APPLIED COPY OR SILK-SCREENED LEGEND. RETRO REFLECTIVE SHEETING SHALL BE IN ACCORDANCE WITH ADOT SECTION 1007.

W. THE BOTTOM OF EACH SIGN SHALL BE AT LEAST 7 FEET ABOVE THE NEAREST EDGE OF PAVEMENT AND AT LEAST 7 FEET ABOVE THE GROUND UNDER THE SIGN.

X. THE CONTRACTOR SHALL INSTALL THE SIGNS SO THE NEAREST EDGE OR CORNER OF EACH SIGN IS OFFSET 2 FEET BEHIND THE BACK OF THE SIDEWALK OR BACK OF THE CURB, OR IF NO CURB EXISTS, IT SHALL BE PLACED A MINIMUM OF 6 FEET FROM THE EDGE OF PAVEMENT.

Y. THE CONTRACTOR SHALL APPLY A PRIMER-SEALER PRIOR TO THE INSTALLATION OF ALL THERMOPLASTIC PAVEMENT MARKINGS IN ACCORDANCE WITH THE THERMOPLASTIC MANUFACTURE'S RECOMMENDATIONS.

Z. ALL WARNING, REGULATORY AND STREET NAME SIGNS ARE TO BE INSTALLED ON 2" SQUARE TUBING PER ADOT SIGNING AND MARKING STANDARDS WITH POST FOUNDATIONS PER DETAIL S-1.

AA. ALL SIGNS MUST BE MANUFACTURED OF "ASTM D-4956-01A-PROPOSED TYPE XI SHEETING" (3M 3000 DG SERIES OR EQUIVALENT) WHICH WILL BE ATTACHED TO THE STANDARD SIGNAGE ALUMINUM PLATES. SIGN IMAGING SHALL BE IN COMPLIANCE WITH THE REFLECTIVE SHEETING MANUFACTURES MATCHED COMPONENT SYSTEM. SIGN IMAGING SHALL CONSIST OF AN ACRYLIC BASED ELCTRONIC CUTTABLE FILM (3M 1170 SERIES OR EQUIVALENT) OR SILK SCREENED (DEPENDING ON THE QUANTITY OF SIGNAGE) WITH STANDARD HIGHWAY COLORS. IN ADDITION, IF CALLED OUT ON PLANS, TO CREATE A GRAFITI-PROTECTIVE COATING, A PREMIUM PROTECTIVE OVERLAY FILM (3M 1160 OR EQUIVALENT) SHALL BE USED WHICH IS DESIGNATED TO COMPLY WITH THE UNDERLYING REFLECTIVE SHEETING MATCH COMPONENT SYSTEM.

BB. RAISED MEDIAN AND CURBS SHALL BE MARKED IN ACCORDANCE WITH ADOT STANDARD DRAWING M-1.

CC. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE INSTALLED WITHIN 5 CALENDAR DAYS OF COMPLETIONS OF THE FINAL LIFT PAVEMENT SURFACE OR AS REQUIRED BY THE ENGINEER.

DD. TRAFFIC CONTROL AND BARRICADING SHALL BE ACCORDING TO THIS PLANS AS WELL AS THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR PINAL COUNTY REQUIREMENTS.

EE. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR THE MILL AND OVERLAY PORTION OF THIS PROJECT TO PINAL COUNTY PUBLIC WORKS INSPECTION STATION AT LEAST FIVE (5) WORKING DAYS PRIOR TO WORK FOR REVIEW AND APPROVAL.

FF. ANY WORK ON ARTERIAL OR COLLECTOR ROADS SHALL REQUIRE AN OFF-DUTY PINAL COUNTY SHERIFF'S OFFICER FOR TRAFFIC CONTROL. CONTACT SHALL BE MADE THROUGH THE PCSO REPRESENTATIVE.

GG. PLAN APPROVAL IS VALID FOR (12) MONTHS. IF APPROVAL EXPIRES, THE PLANS MUST BE RESUBMITTED FOR COUNTY UPDATE REVIEW AND APPROVAL.

ENGINEER'S NOTES:

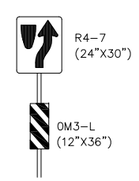
1. CONTRACTOR TO VERIFY THAT ALL SIGNING & STRIPING, PER THIS PLAN, MATCH WITH EXISTING STRIPING. IF A DISCREPANCY IS NOTED BETWEEN THE EXISTING STRIPING SHOWN ON THIS PLAN AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE APPROPRIATE AGENCY PRIOR TO IMPLEMENTATION.
2. ALL BARRICADES TO BE INSTALLED PER PAVING PLANS FOR THIS PROJECT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. PAVEMENT MARKING DIMENSIONS ARE TO CENTER OF THE STRIPE FOR SINGLE LINE STRIPING, AND TO THE CENTER OF THE SPACE BETWEEN THE TWO LINES FOR DOUBLE LINE STRIPING. WHERE CURB AND GUTTER IS PRESENT, DIMENSIONS ARE TO THE FACE OF CURB.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING PAVEMENT MARKERS IN CONNECTION WITH THE STRIPE OBLITERATION ACTIVITIES. THERE SHALL BE NO MEASUREMENT OR PAYMENT FOR THE REMOVAL OF THE EXISTING RAISED PAVEMENT MARKERS.
5. FOR ALL GROUND MOUNTED D3 STREET NAME SIGNS CONTRACTOR SHALL COORDINATE/PREPARE SIGN DESIGN IN ACORDANCE WITH THE ADOT MANUAL OF APPROVED SIGNS.
6. LEFT AND RIGHT TURN LANES REQUIRING TWO TURN ARROWS SHALL HAVE THE FIRST ARROW PLACED AT THE BEGINNING OF THE TURN LANE AND THE SECOND TURN ARROW PLACED 20 FEET BACK FROM THE END OF THE HOLDING BAR.

STRIPING LEGEND:

- 6DTW — 6" DASH WHITE LINE WITH A 2' LINE SEGMENT AND A 4' GAP
- 6BW40 — 40' — 6" BROKEN WHITE LINE WITH A 10' LINE SEGMENT AND A 30' GAP WITH TYPE 'G' RPM'S @ 40' SPACING
- 6SW80 — 80' — 6" SOLID WHITE LINE WITH TYPE 'G' RPM'S @ 80' SPACING (FOR STRAIGHT SECTIONS OF ROADWAY)
- 6SY80 — 80' — 6" SOLID YELLOW LINE WITH TYPE 'E' RPM'S @ 80' SPACING (FOR STRAIGHT SECTIONS OF ROADWAY)
- 8SW20 — 20' — 8" SOLID WHITE LINE WITH TYPE 'G' RPM'S @ 20' SPACING
- 12SW20 — 20' — 12" SOLID WHITE LINE WITH TYPE 'G' RPM'S @ 20' SPACING
- 6DY20 — 20' — 6" DOUBLE YELLOW LINE WITH TYPE 'D' RPM'S @ 20' SPACING
- 6SBYM — TYPE 'D' / TYPE 'D' — 6" DOUBLE YELLOW LINE, ONE SOLID, ONE BROKEN WITH A 10' LINE SEGMENT AND A 30' GAP WITH TYPE 'D' RPM'S @ 20' SPACING (SOLID) TYPE 'D' RPM'S @ 40' SPACING (BROKEN)
- 8BW24 — 24' — 8" BROKEN WHITE LINE WITH A 3' LINE SEGMENT AND A 9' GAP WITH TWO TYPE 'G' RPM'S @ 24' SPACING
- 6SBYM N.P.Z. — TYPE 'D' / TYPE 'H' — 6" DOUBLE YELLOW LINE, ONE SOLID, ONE BROKEN WITH A 10' LINE SEGMENT AND A 30' GAP WITH TYPE 'H' RPM'S @ 20' SPACING TYPE 'D' RPM'S @ 40' SPACING

SIGN LEGEND:

- FROM / TO — RELOCATION
- EXISTING SIGN
- NEW SIGN



DETAIL "A"

NO SCALE
ADD MEDIAN NOSE MARKING PER ADOT STD. DWG M-1

APPROXIMATE PAVEMENT MARKING QUANTITIES

BID ITEM NUMBER	ITEM		UNIT	QUANTITIES
92	PAVEMENT MARKING SPRAYED THERMOPLASTIC 90MIL	6" WHITE	L.F.	33,769
93		6" YELLOW	L.F.	42,003
94	PAVEMENT MARKING (TRANSVERSE)	4" WHITE (EQUIVALENT)	L.F.	38,864
95	PAVEMENT MARKING (PAINT)	4" WHITE (EQUIVALENT)	L.F.	9,294
96	WHITE 90 MIL ALKYD EXTRUDED THERMOPLASTIC PAVEMENT MARKING	TURN ARROW (ADOT STD. DWG. M-10)	EACH	101
97		"ONLY" LEGEND (ADOT STD. DWG. M-10 & M-11)	EACH	46
98		BIKE LANE SYMBOL (AGENCY STANDARDS)	EACH	35
99	PAVEMENT MARKING (PAINT)	TURN ARROW (ADOT STD. DWG. M-10)	EACH	4
100		"ONLY" LEGEND (ADOT STD. DWG. M-10 & M-11)	EACH	2
101	RAISED PAVEMENT MARKERS	TYPE D	EACH	2,253
102	RAISED PAVEMENT MARKERS	TYPE E	EACH	34
103	RAISED PAVEMENT MARKERS	TYPE G	EACH	2,473
104	RAISED PAVEMENT MARKERS	TYPE H	EACH	0
91	PAINT MEDIAN NOSE	PAINT BULL NOSE (ADOT STD. DWG. M-1)	EACH	9

APPROXIMATE SIGN QUANTITIES

BID ITEM NUMBER	ITEM	UNIT	QUANTITIES
106	SIGN POST (PERFORATED) (SINGLE)	L.FT.	1,500
107	FOUNDATION FOR SQUARE TUBE POST	EACH	127
108	REGULATORY, WARN, OR MARKER SIGN PANEL W/TYP XI SHEET	SQ.FT.	937
109	FLAT SHEET ALUM W/DIR-APP OR SLK SCRN CHAR., TYP XI SHEET	SQ.FT.	15
89	REMOVE AND SALVAGE SIGNS	EACH	144
90	RELOCATE EXISTING SIGNS	EACH	27

STRIPING LEGEND CONT:

- 6SY — 6" SOLID YELOW LINE
- 6SW — 6" SOLID WHITE LINE
- 6DY — 6" DOUBLE YELLOW LINE
- 12SW — 12" SOLID WHITE LINE
- 18SW — 18" SOLID WHITE LINE
- EX — EXISTING STRIPING TO REMAIN
- ONLY — "ONLY" PAVEMENT MARKING
- "TURN ARROW" (LT OR RT) PAVEMENT MARKING
- "BIKE LANE & ARROW" PAVEMENT MARKING PER MCDOT PAVEMENT MARKING MANUAL DET 4-24

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SIGNING AND PAVEMENT MARKINGS

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 111 OF 176

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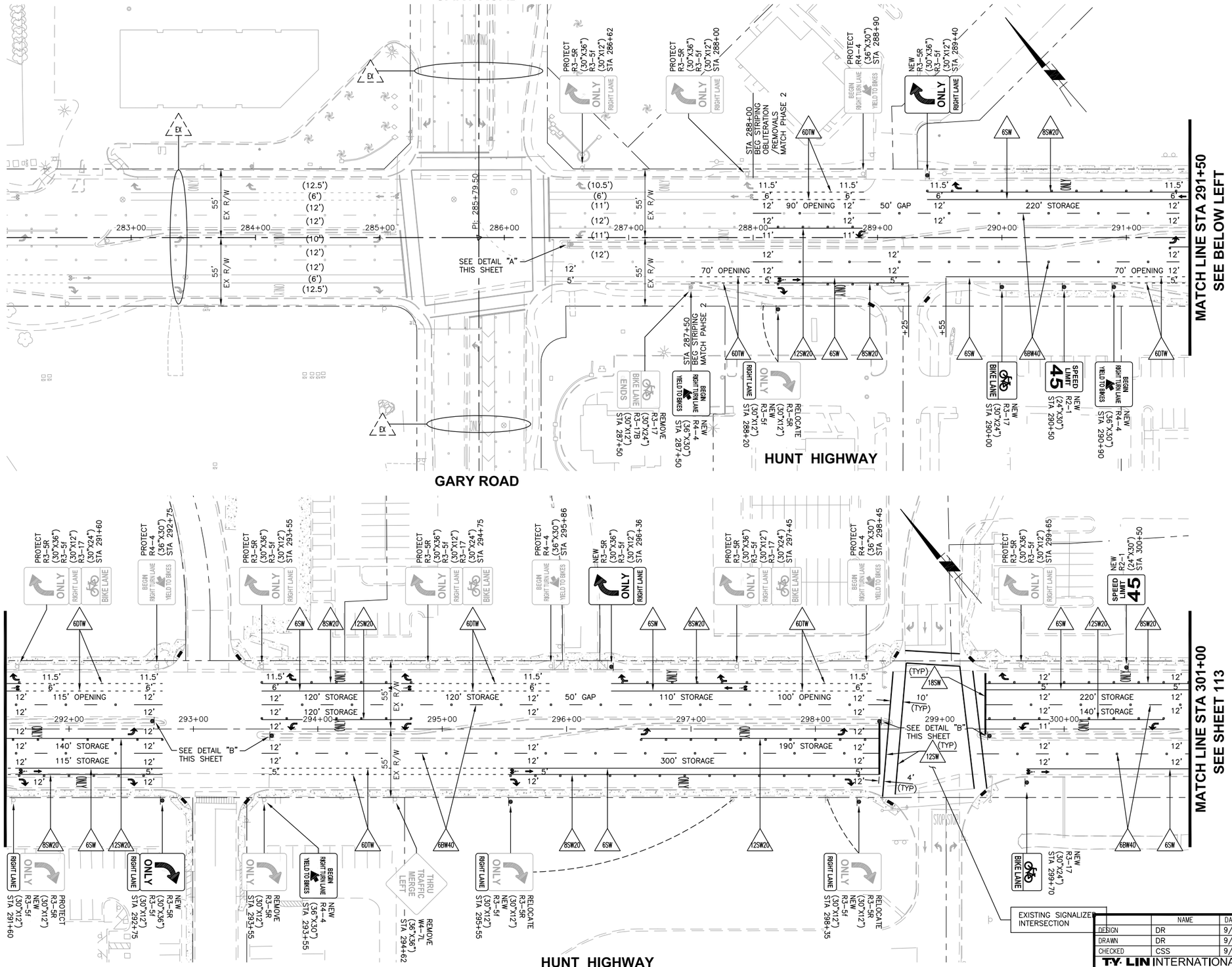
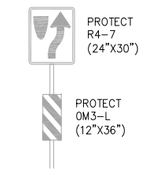
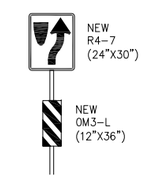
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





DETAIL "A"

NO SCALE



DETAIL "B"

NO SCALE
ADD MEDIAN NOSE MARKING
PER ADOT STD. DWG M-1
STA 292+67
STA 293+63
STA 298+51
STA 299+40

Call at least two full working days before you begin excavation.
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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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ENGINEERING BRANCH
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SIGNING AND PAVEMENT MARKINGS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

48279 CARLOS SANCHEZ SORIA
Date Signed 9/28/15
ARIZONA, U.S.A.
Expires 9/30/17

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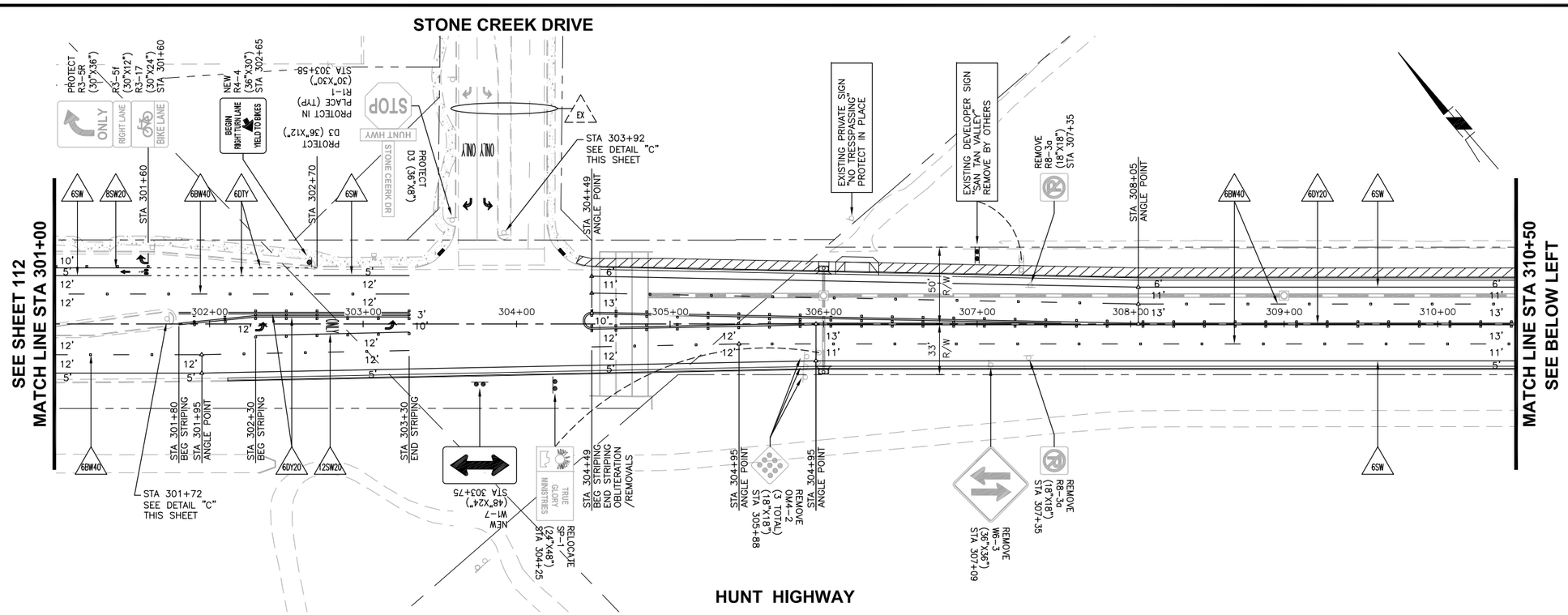
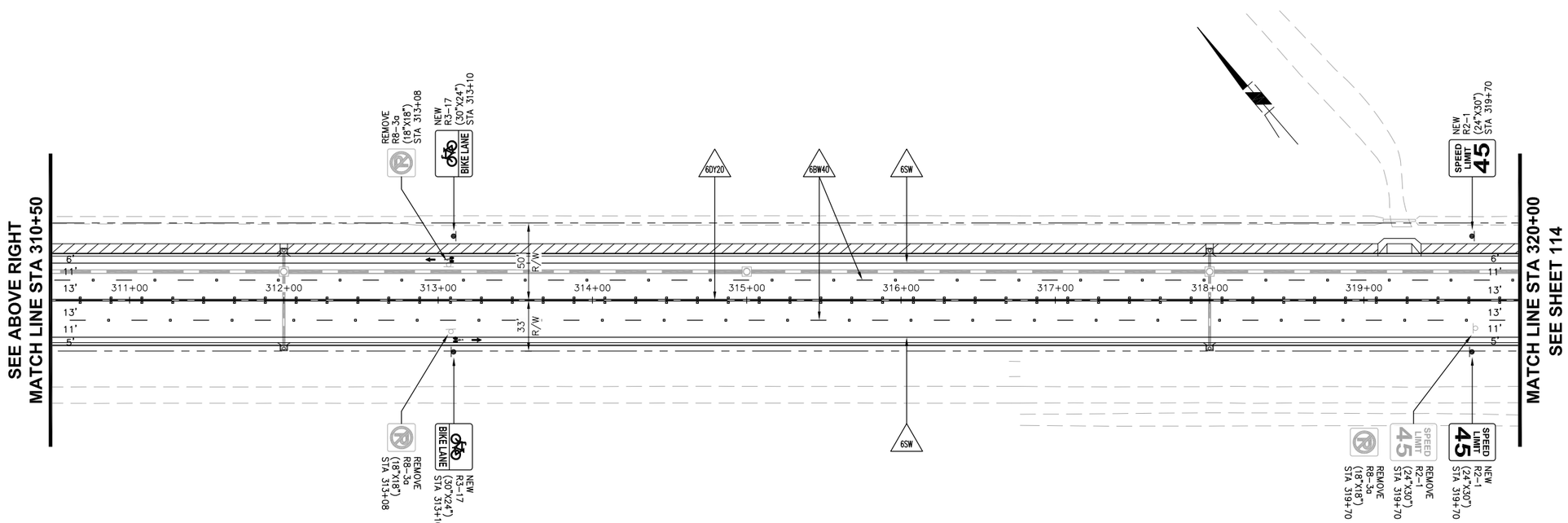
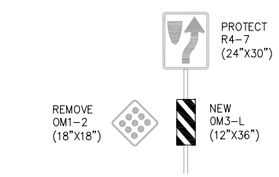
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			







DETAIL "C"

NO SCALE
ADD MEDIAN NOSE MARKING
PER ADOT STD. DWG M-1

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SCALE: 1" = 40'

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	NAME	DATE
DESIGN	DR	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

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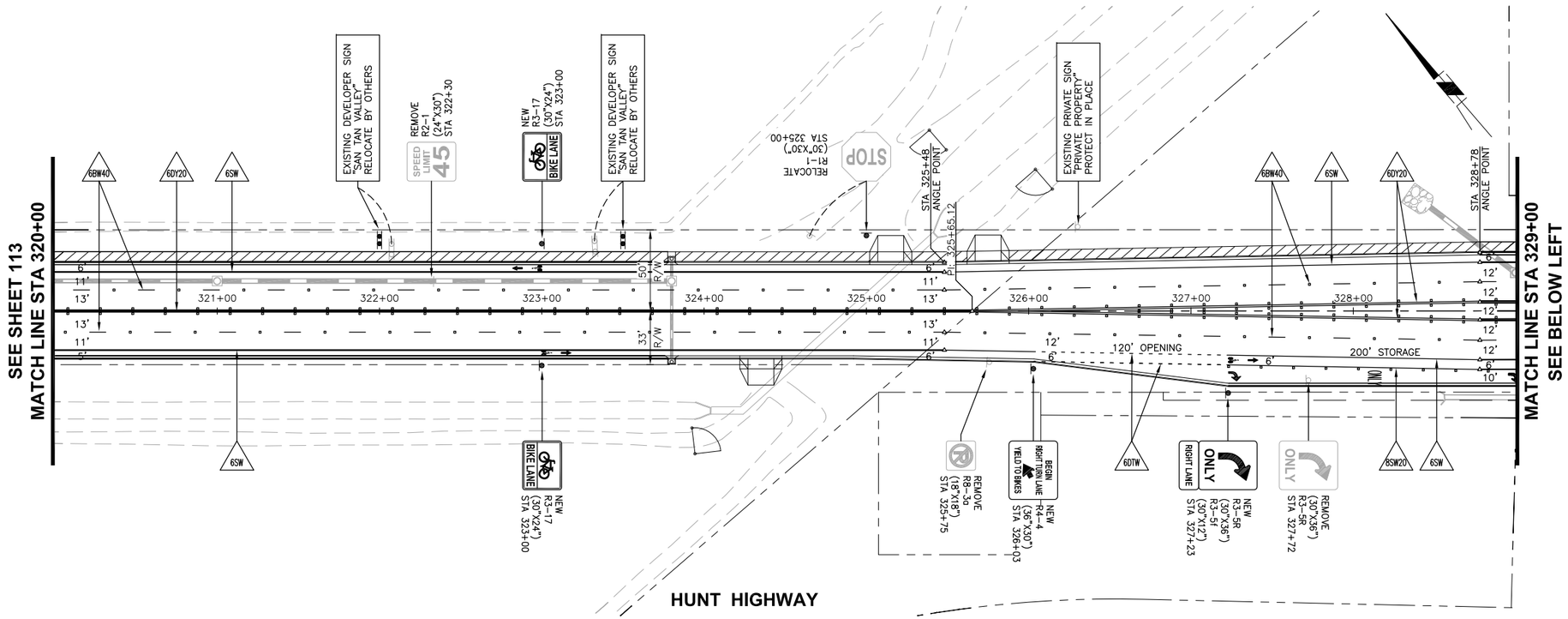

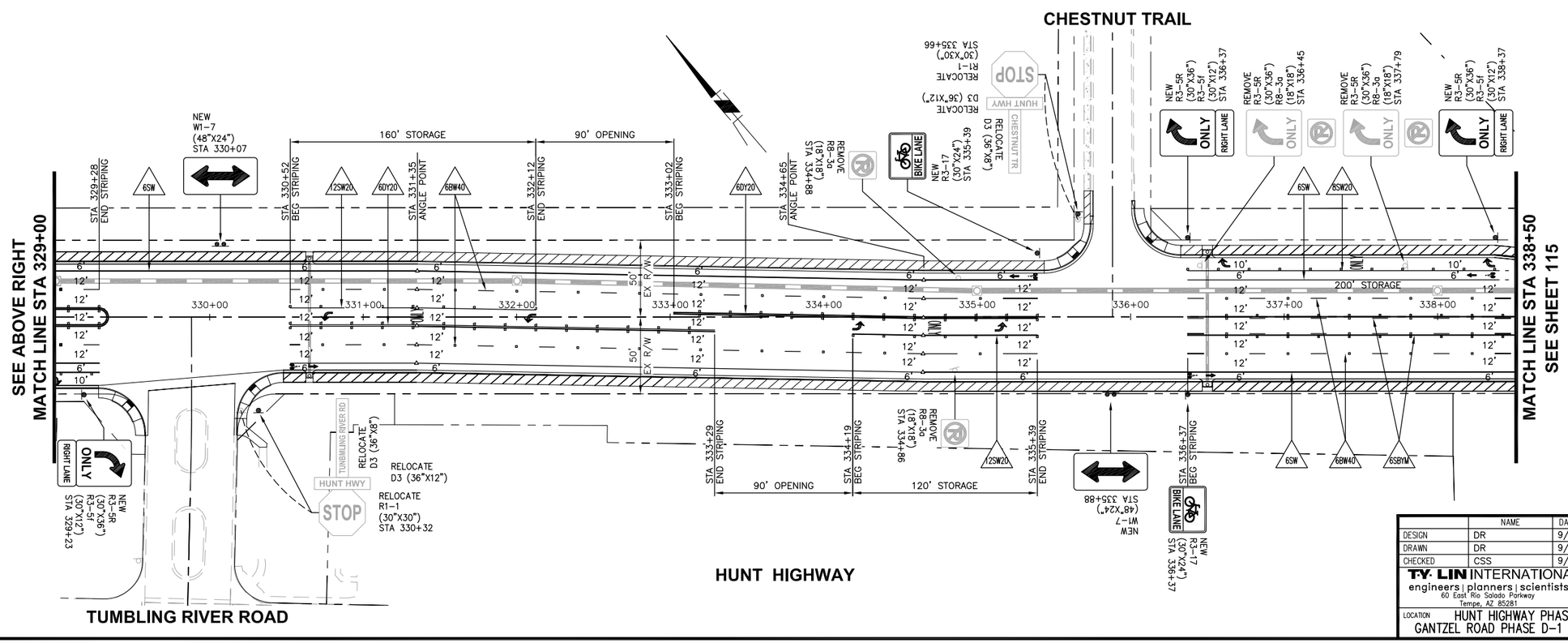

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Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

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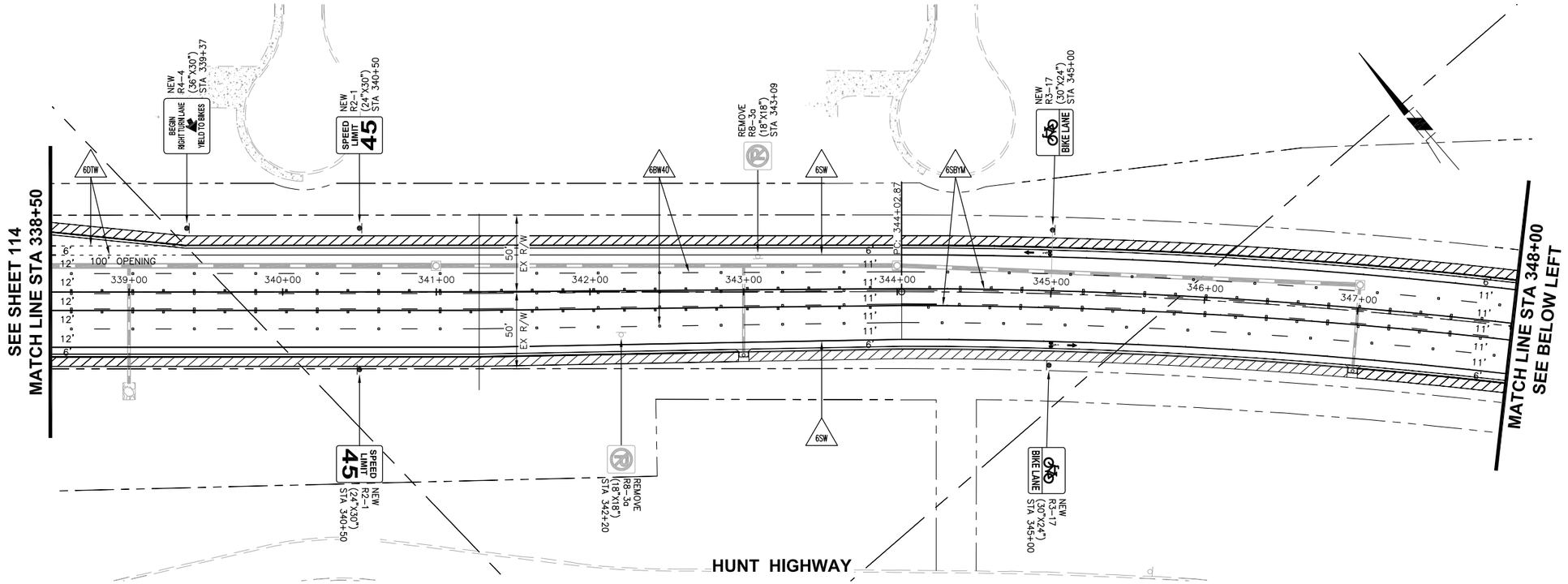
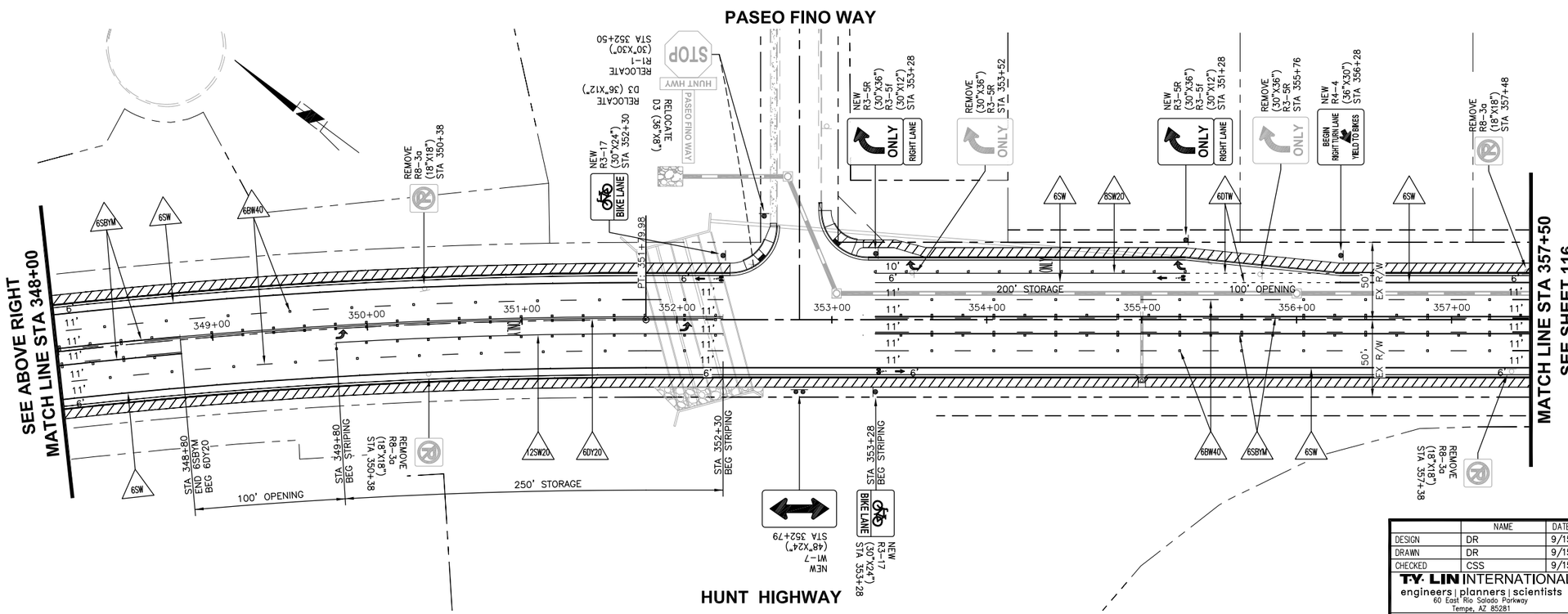
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





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ARIZONA 811
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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
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DESIGN SECTION

SIGNING AND PAVEMENT MARKINGS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

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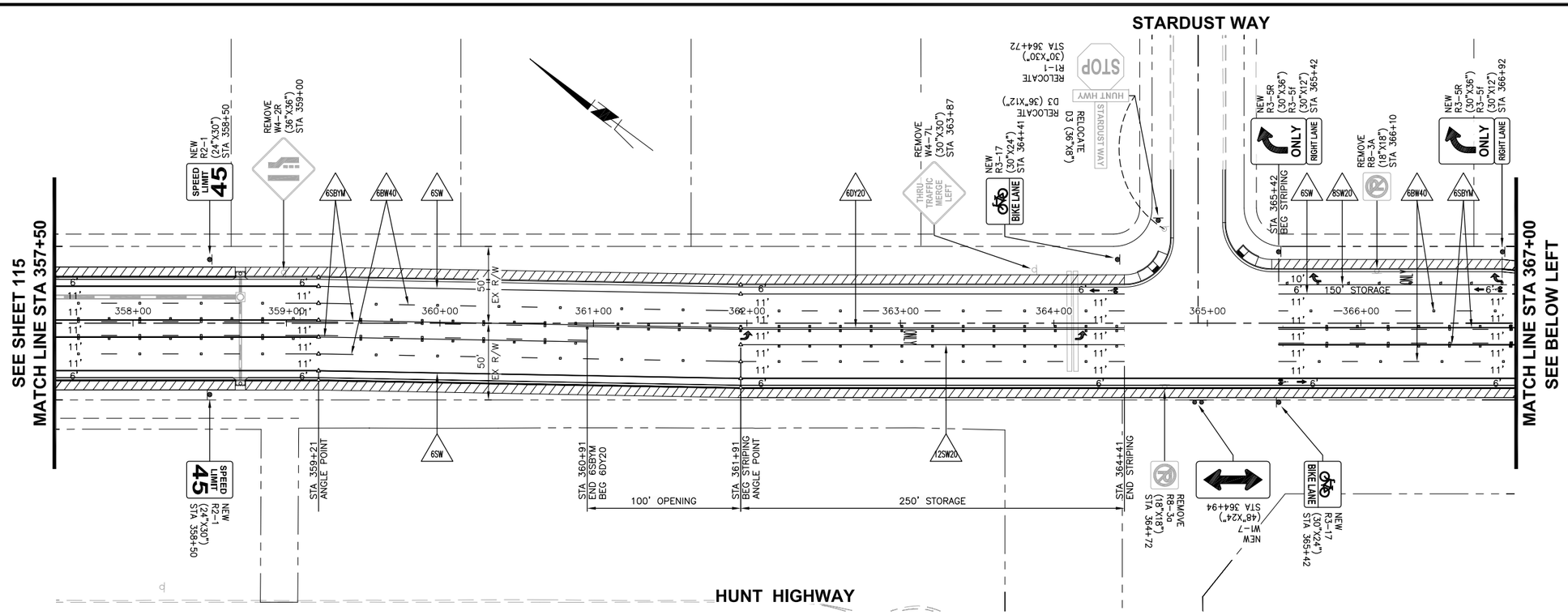
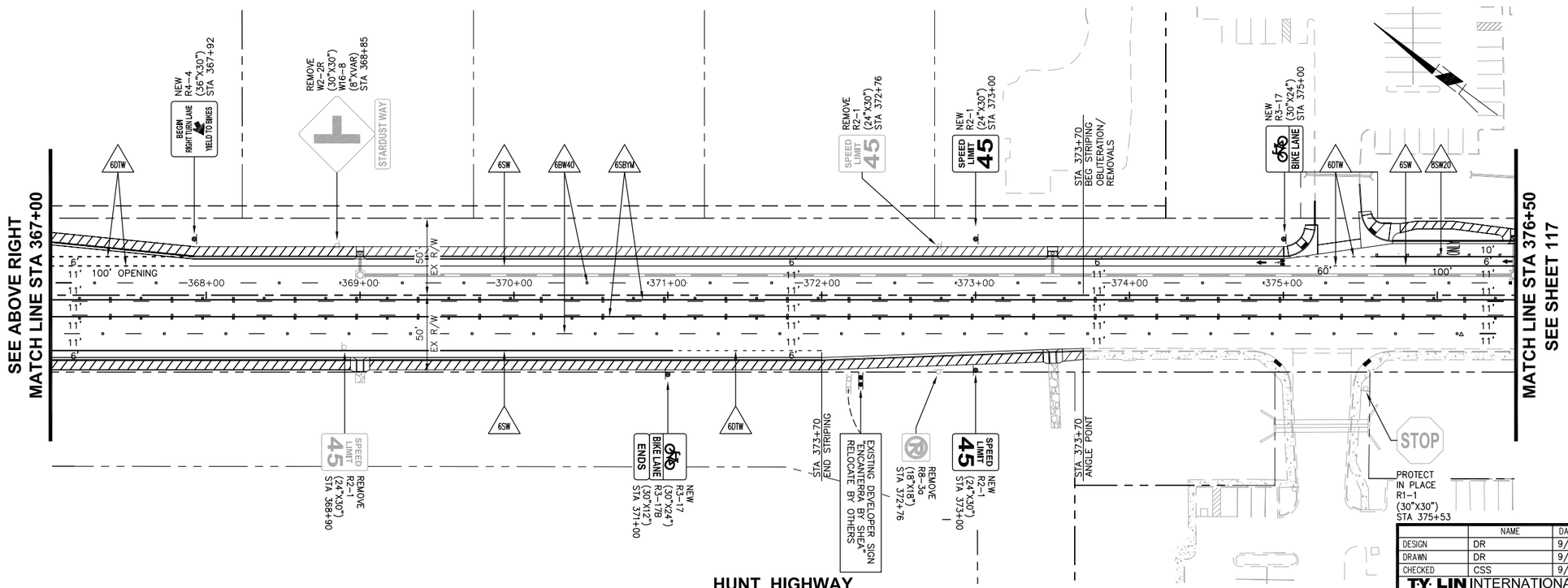
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





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In Maricopa County: (602) 263-1100

40 0 40 80 120
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NO.	REVISION	BY	APPR	DATE

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DRAWN	DR	9/15
CHECKED	CSS	9/15

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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 116 OF 176

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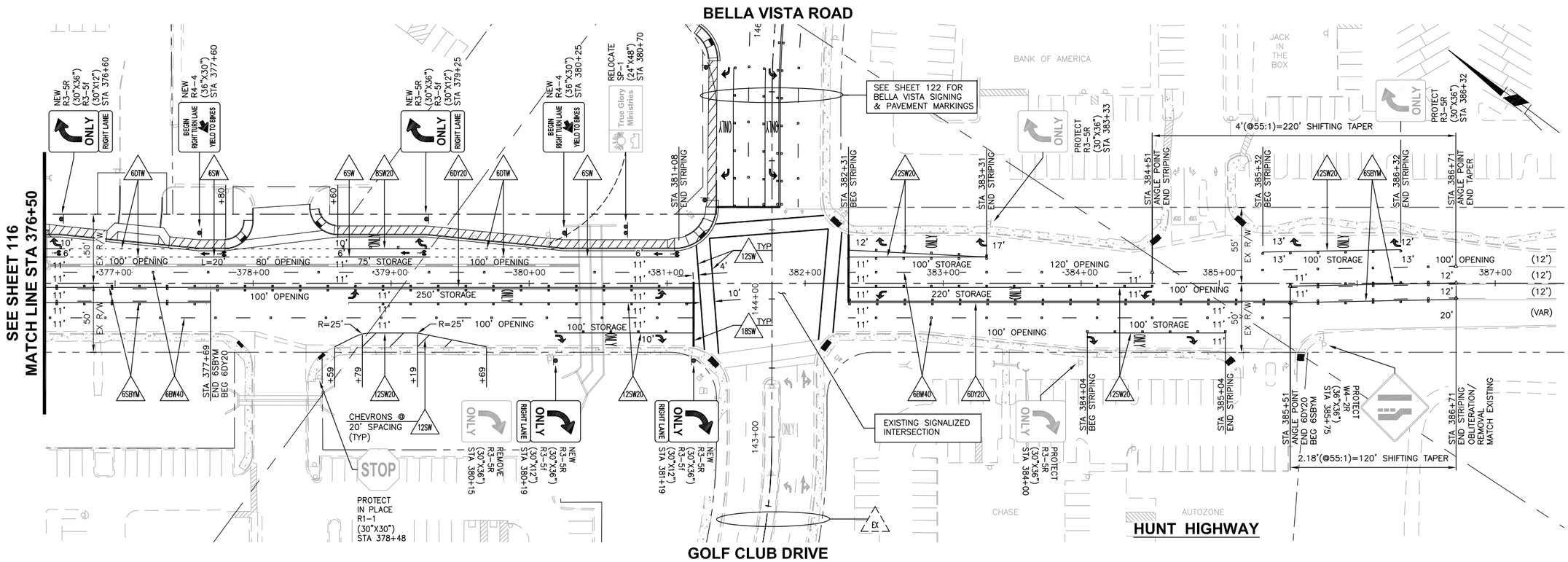
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



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NO.	REVISION	BY	APPR	DATE

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 117 OF 176

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Striping\6621173_112-117_126-127_Striping.dwg
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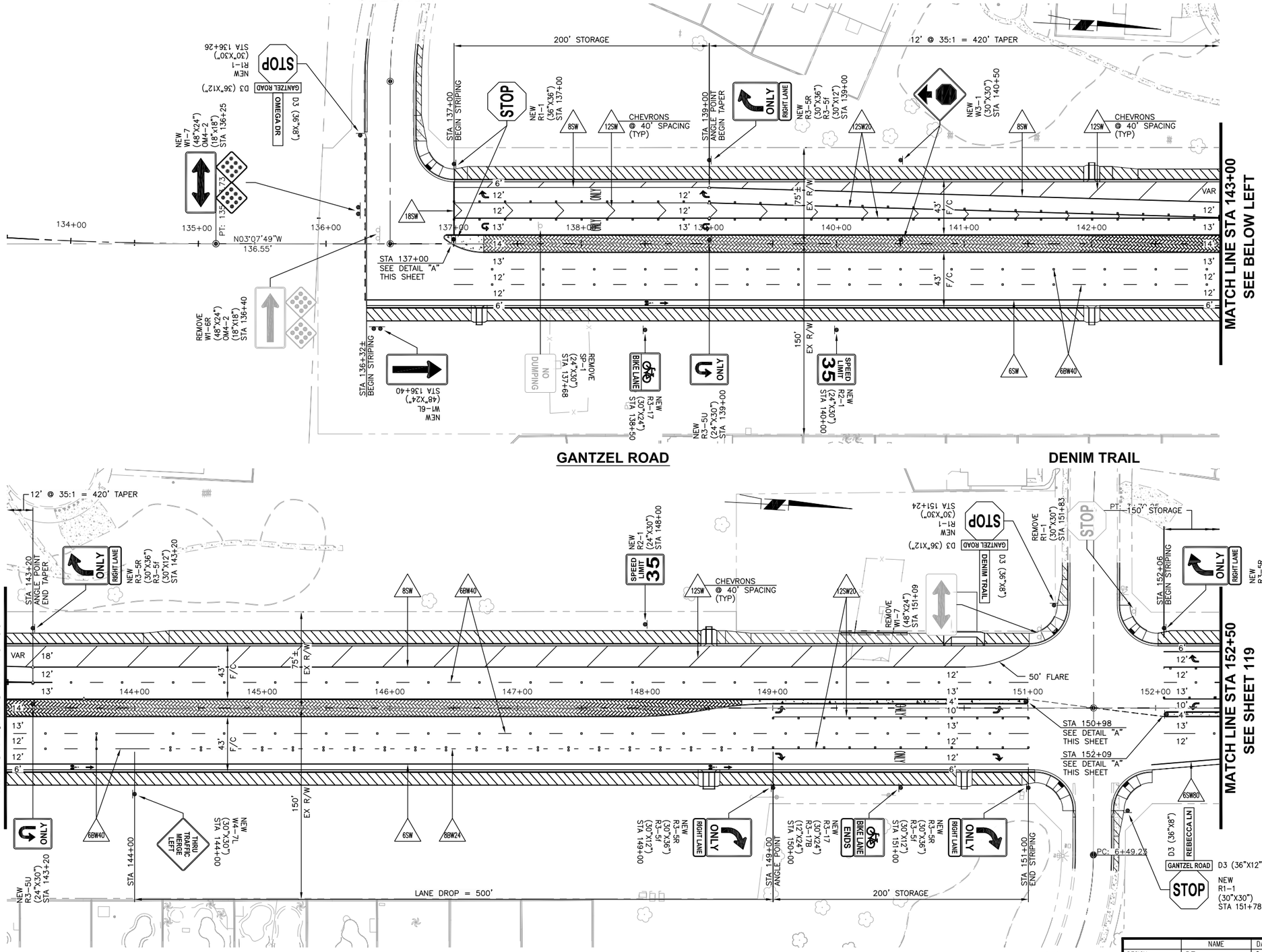
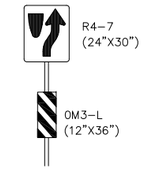
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





DETAIL "A"

NO SCALE
ADD MEDIAN NOSE MARKING
PER ADOT STD. DWG M-1

(PAVEMENT MARKINGS)
ALL SOUTHBOUND PAVEMENT MARKING SHALL BE PAINT IN LIEU OF THERMOPLASTIC FROM OMEGA DRIVE STA 137+00 TO DEMI TRAIL STA 151+00

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CARLOS SANCHEZ SORIA
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ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 118 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Striping\2170001_111_118-125_128-131_PH1_Striping.dwg 9/28/2015 2:49:16 PM
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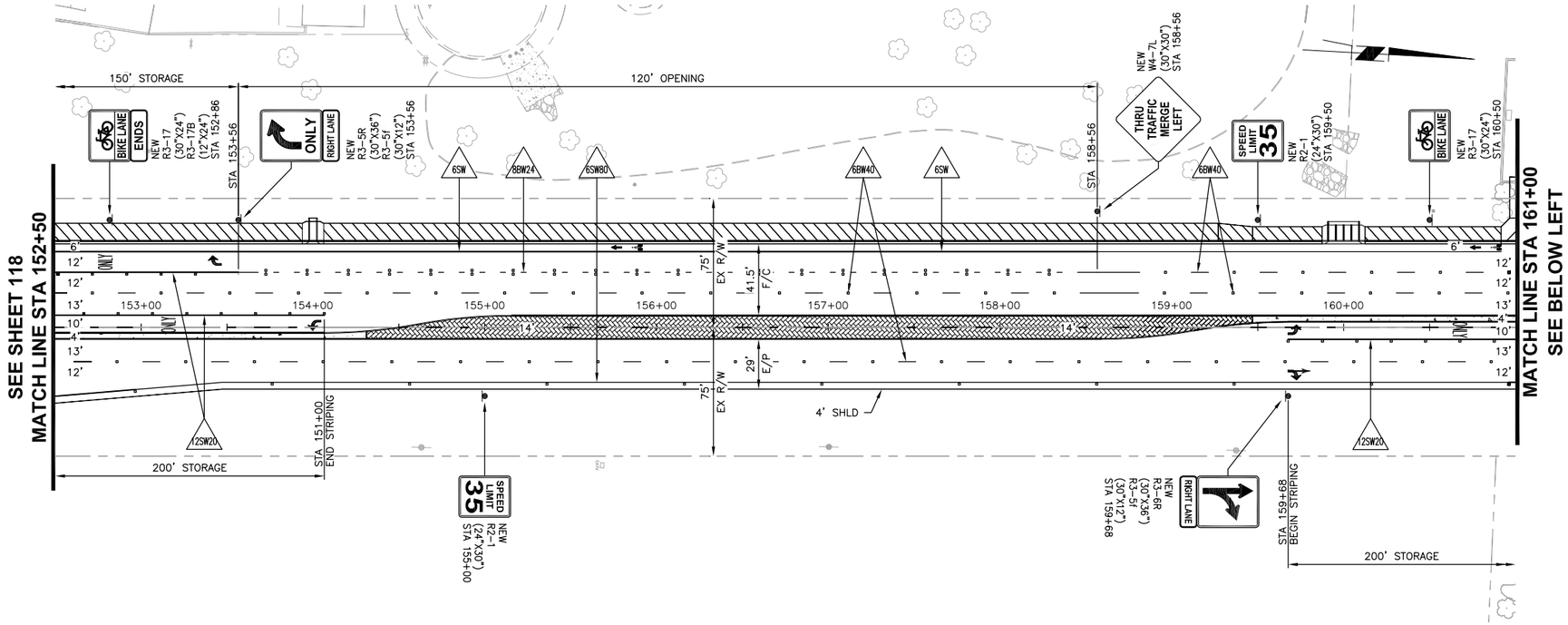
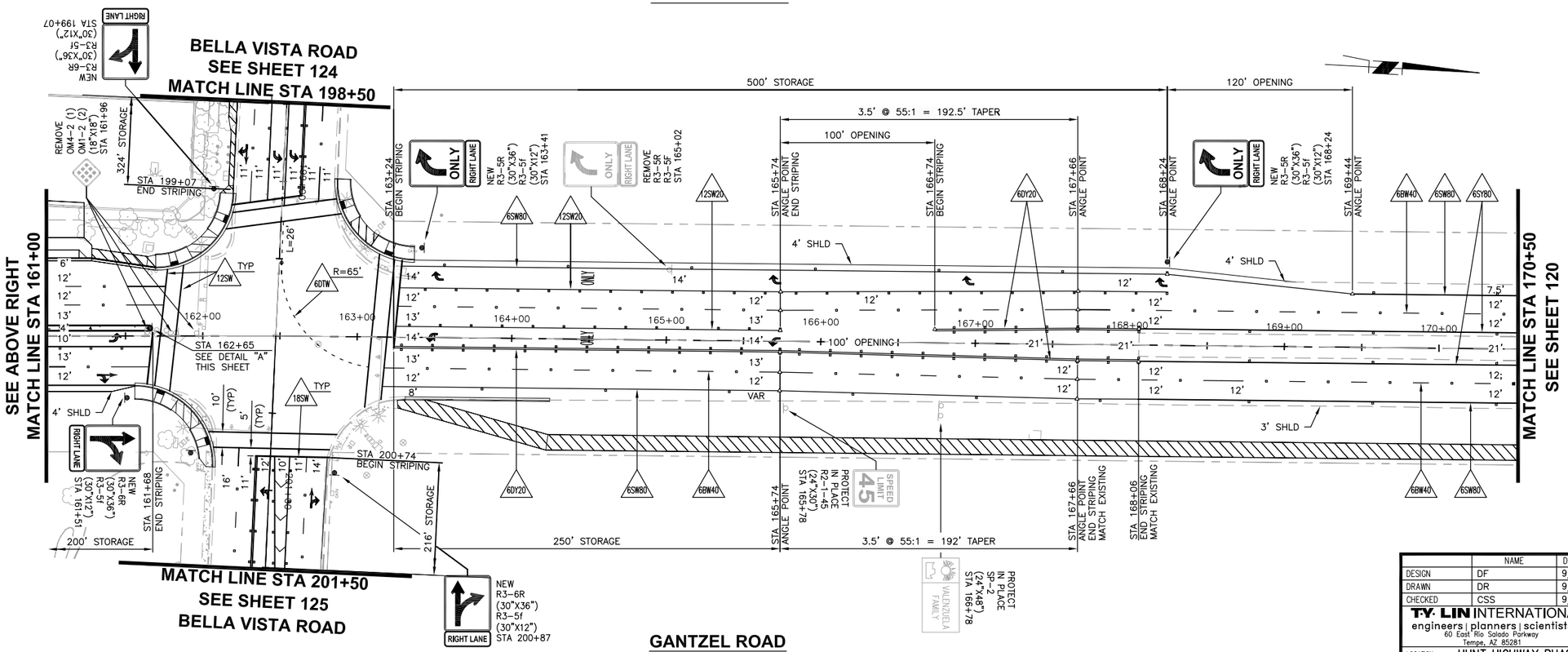
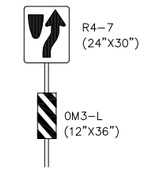
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD





DETAIL "A"

NO SCALE
ADD MEDIAN NOSE MARKING
PER ADOT STD. DWG M-1

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NO.	REVISION	BY	APPR	DATE

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DESIGN	DF	9/15
DRAWN	DR	9/15
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REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 119 OF 176

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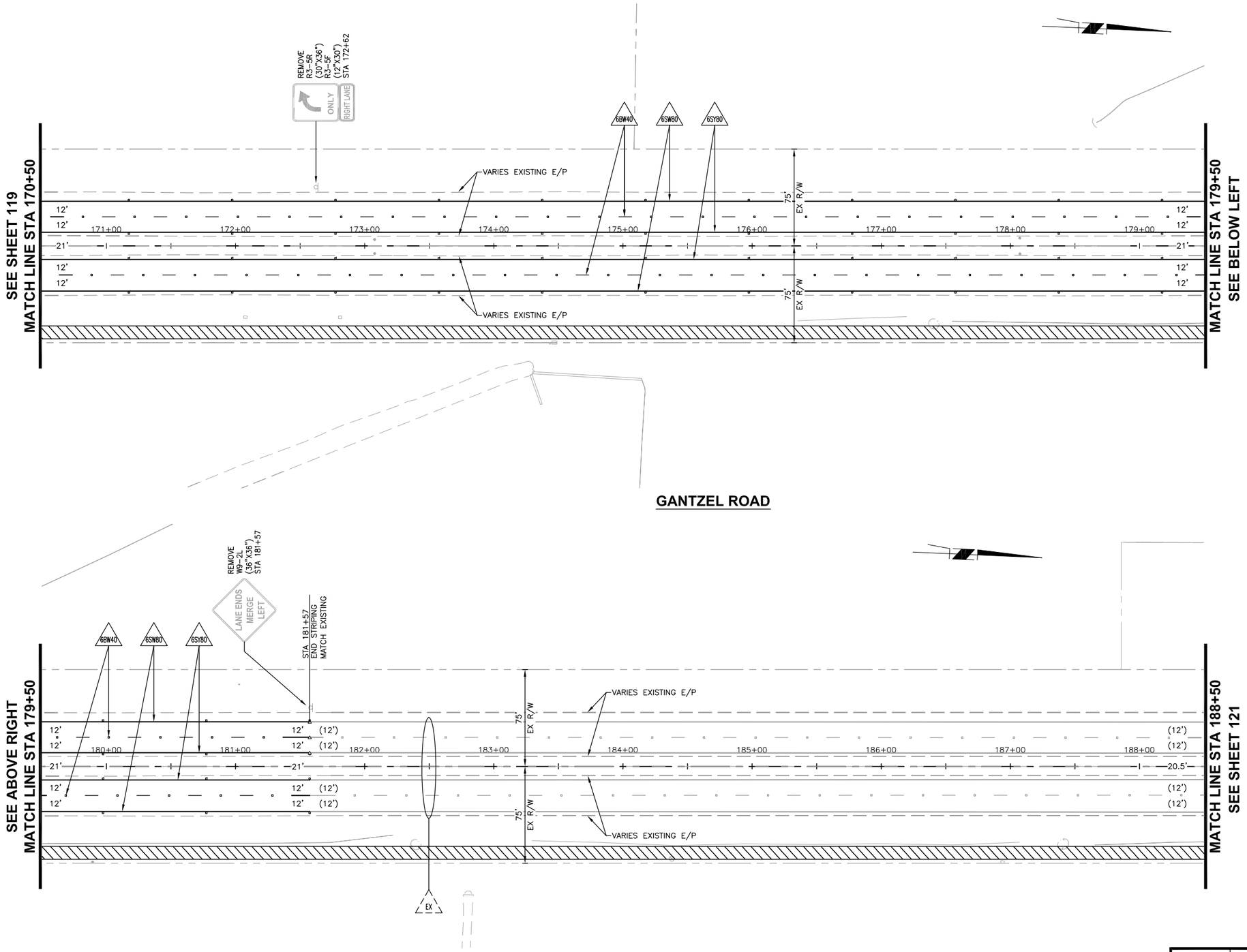
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



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CHECKED	CSS	9/15

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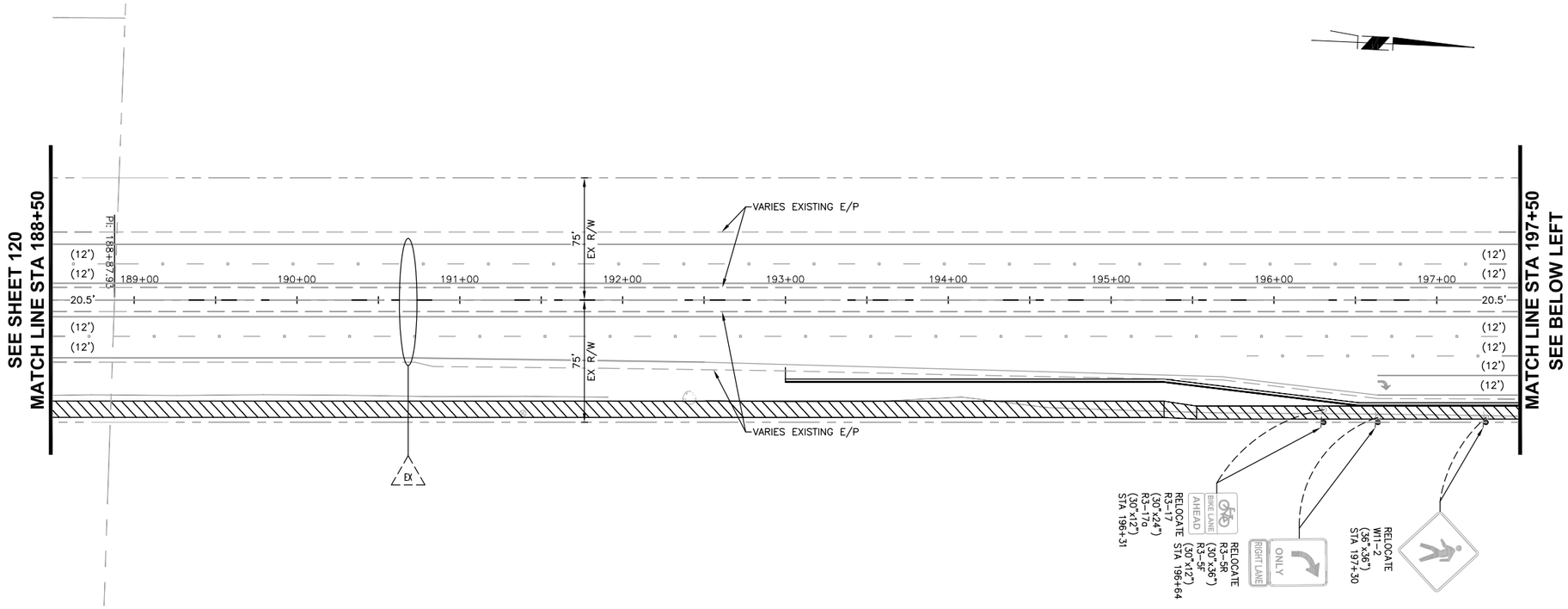
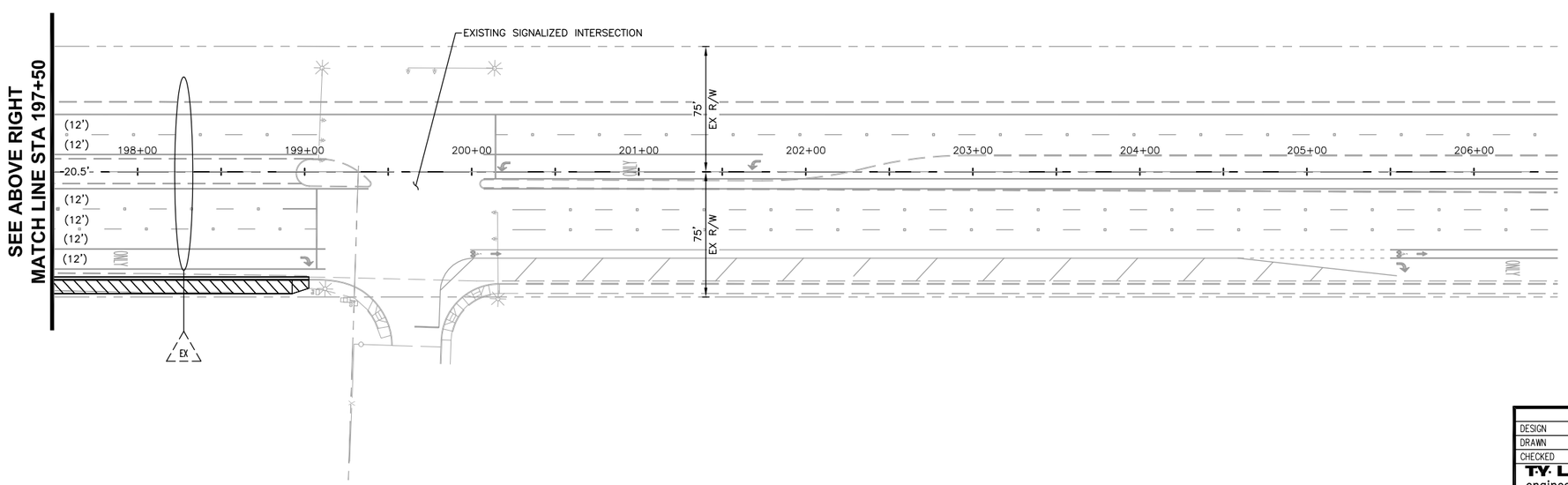
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD



GANTZEL ROAD

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40 0 40 80 120
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NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DF	9/15
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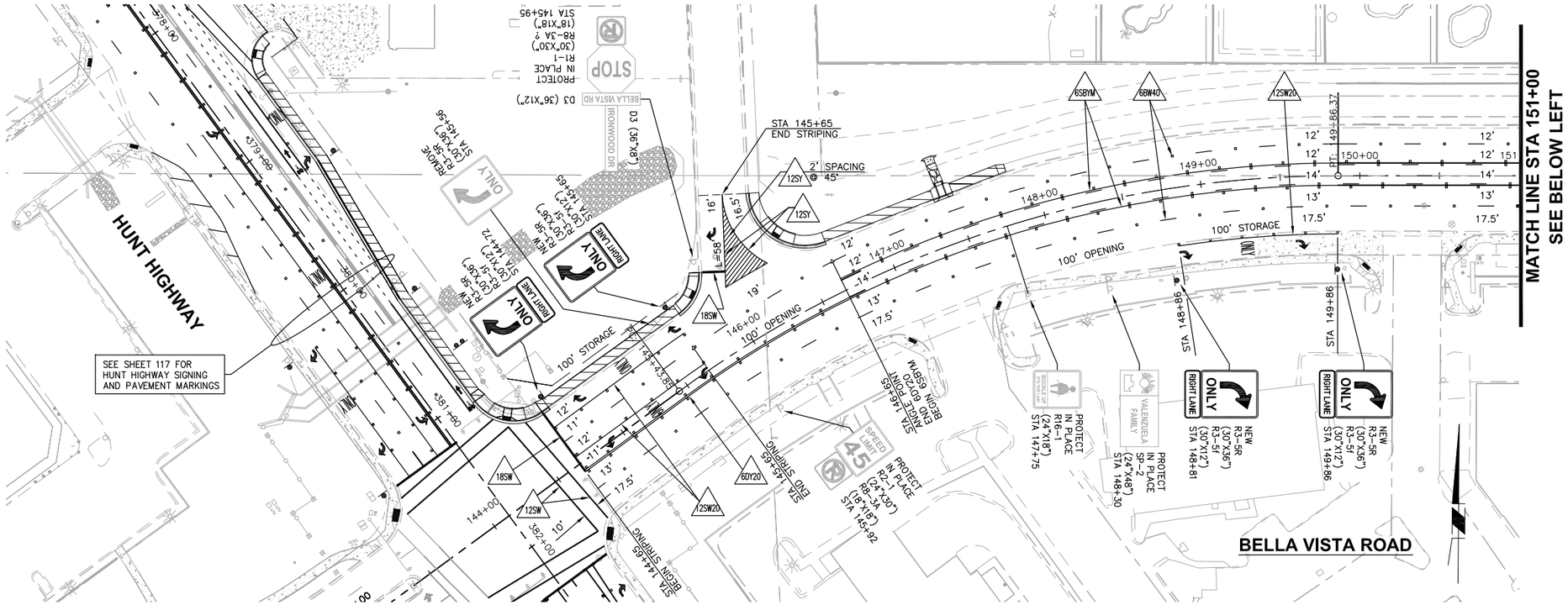
Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

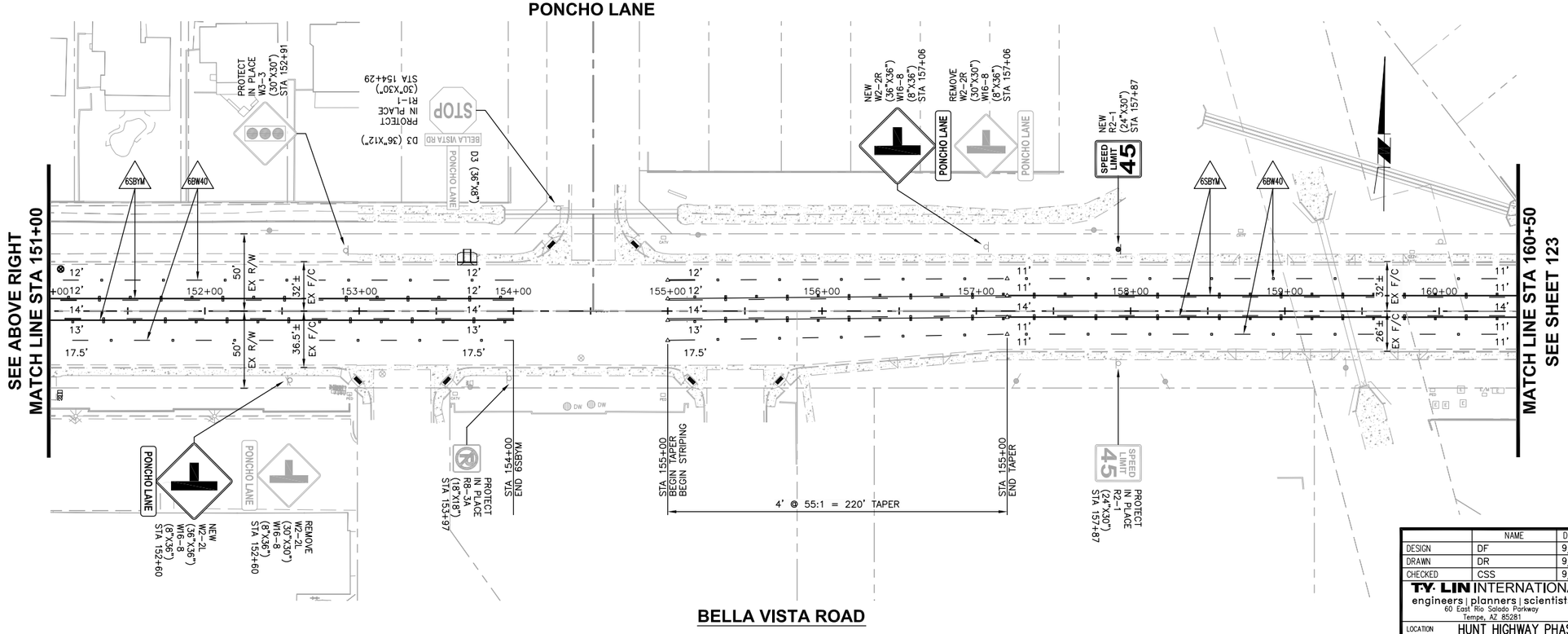
LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 121 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Striping\2170001_111_118-125_128-131_PH1_Striping.dwg 9/28/2015 2:49:30 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





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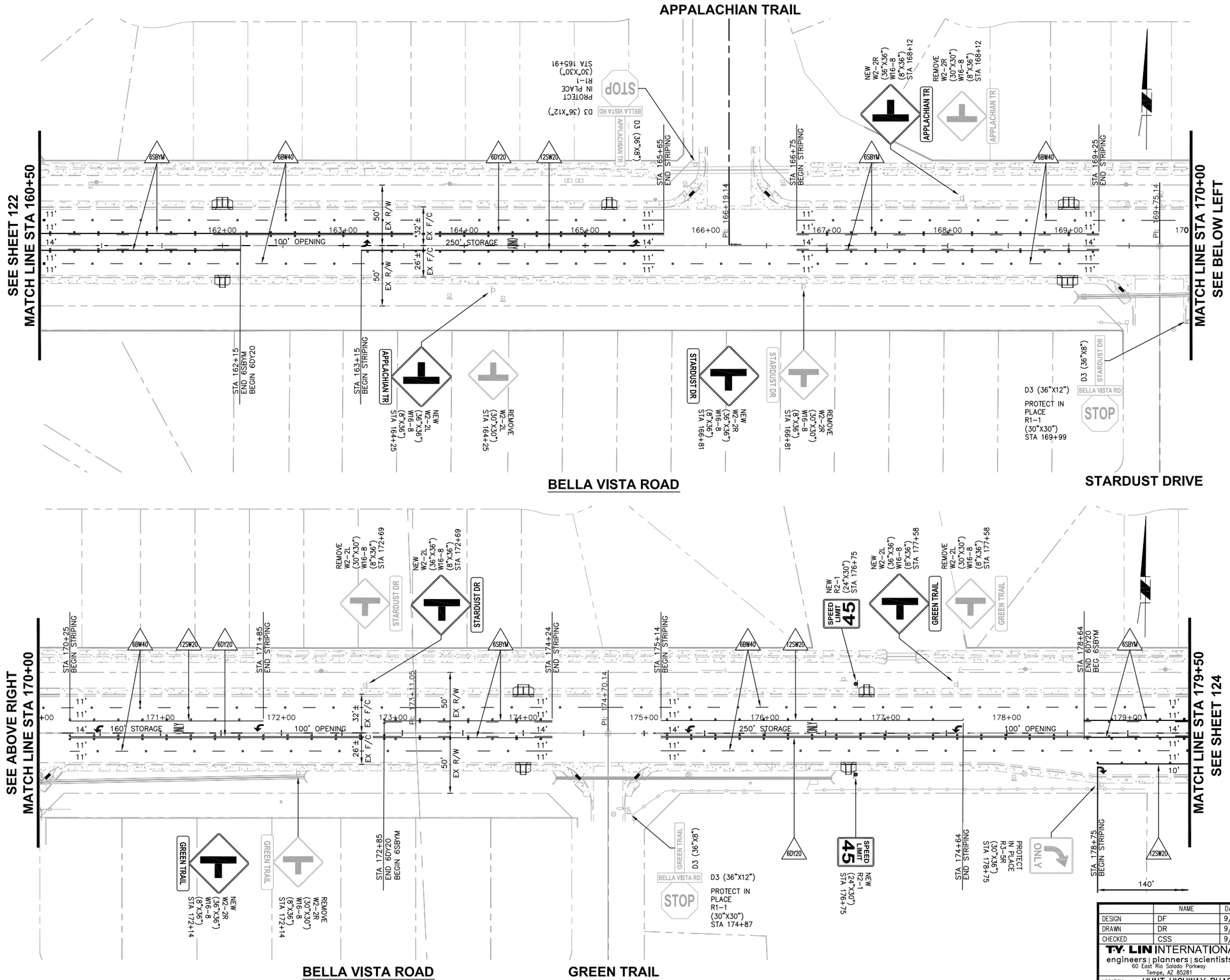
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/28/15
ARIZONA, U.S.A.
Expires 6/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 122 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Striping\2170001_111_118-125_128-131_PH1_Striping.dwg 9/28/2015 2:49:35 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



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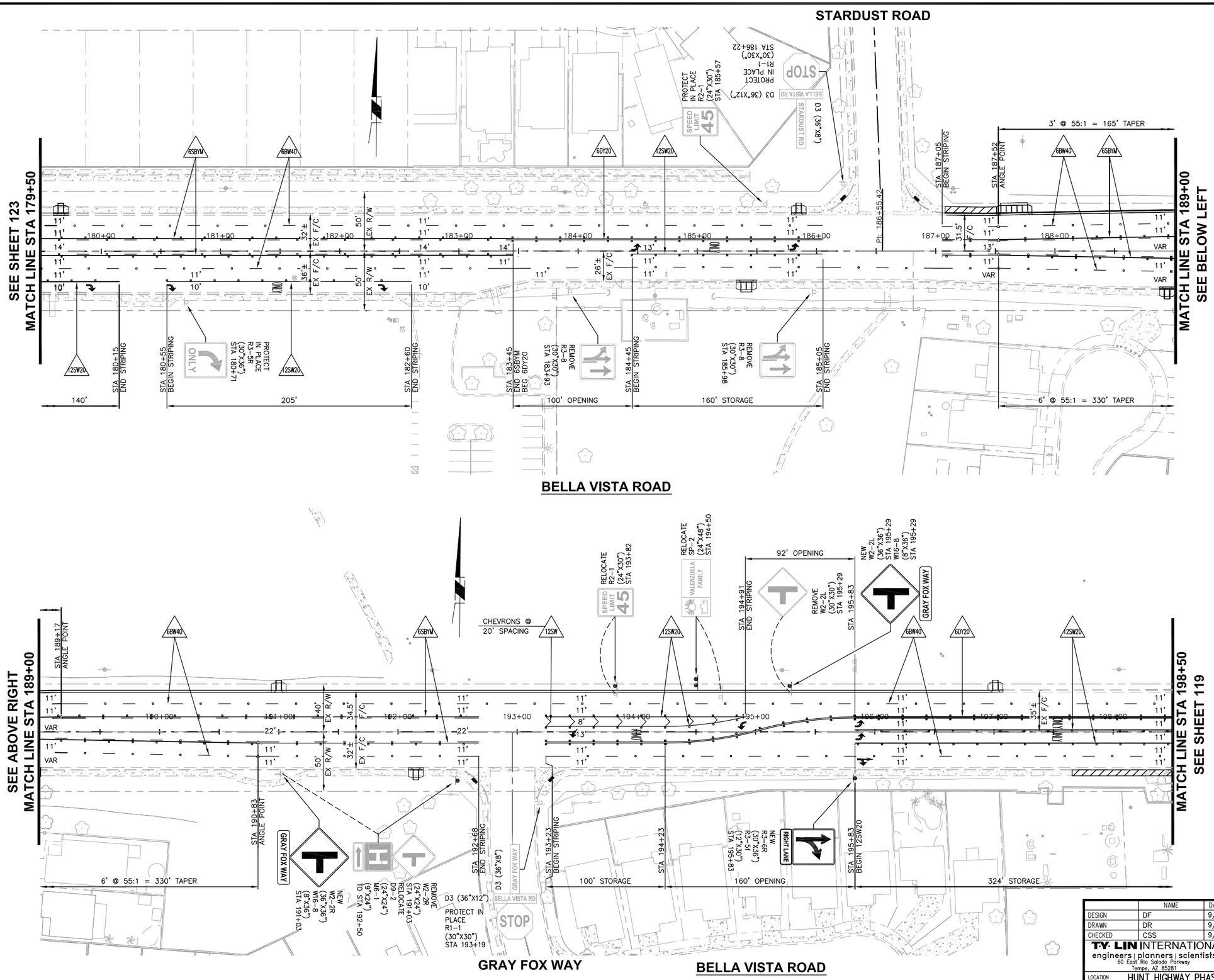

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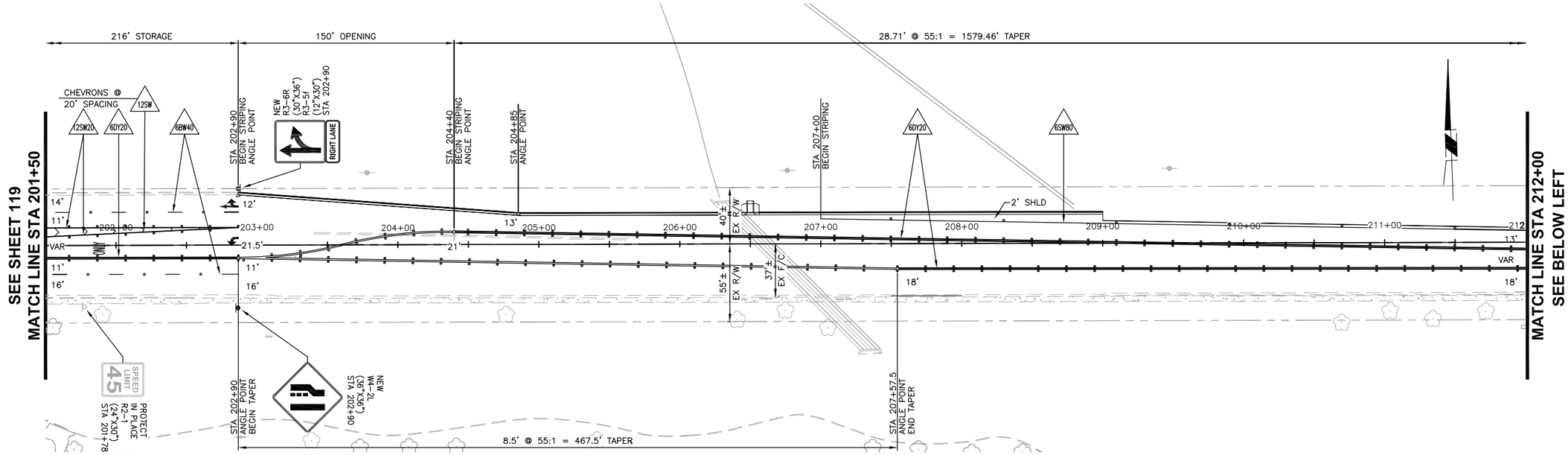
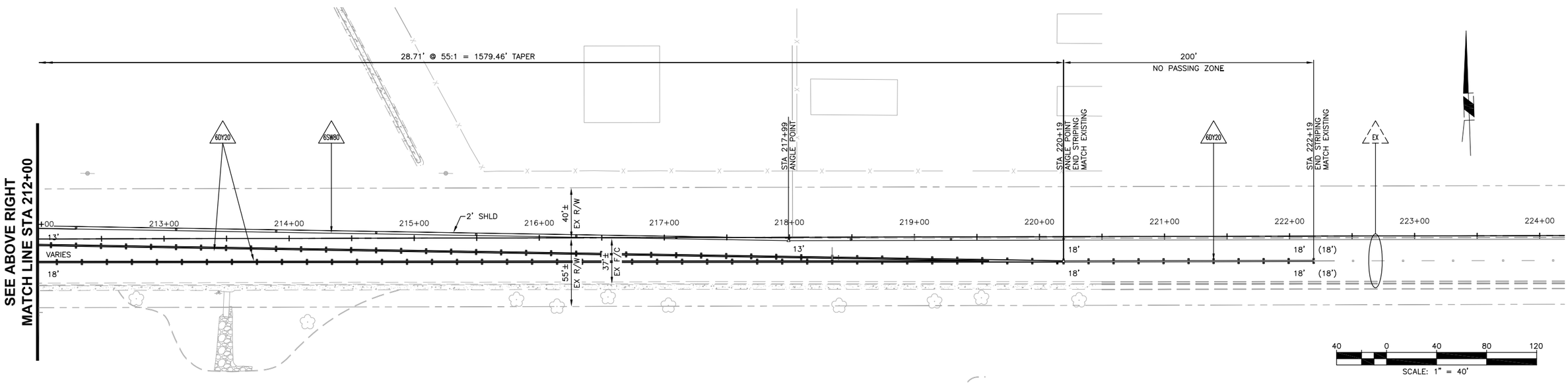


BELLA VISTA ROAD



BELLA VISTA ROAD

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REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 125 OF 176

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9	AZ	62952173 & 662170001			

STA.	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM EP OR LIP Lt (ft)	OFFSET FROM EP OR LIP Rt (ft)	PANEL LEGEND	PANEL SIGN SIZE WIDTH (in)	PANEL SIGN SIZE HEIGHT (in)	PANEL SHEETING TYPE XI AREA (sq. ft.) RWM	PANEL SHEETING TYPE XI AREA (sq. ft.) F-DA	PANEL SHEETING TYPE XI AREA (sq. ft.) SF	GROUND MOUNT POSTS NO. POSTS	GROUND MOUNT POSTS TYPE (length) P (ft)	GROUND MOUNT POSTS TYPE (length) U (ft)	GROUND MOUNT POSTS FOUNDATIONS P (ea)	GROUND MOUNT POSTS FOUNDATIONS U (ea)	REMARKS
HUNT HIGHWAY																			
287+50	R3-17			X				BIKE LANE	30	24									
	R3-17B			X				ENDS	30	12									
	R4-4	X			X		6	"BEGIN RT TURN LANE"	36	30	RWM		7.5						MOUNT ON EXIST POST
288+20	R3-5R		X				6	RIGHT TURN ONLY	30	36				1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
289+40	R3-5R	X				6		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
290+00	R3-17	X					6	BIKE LANE	30	24	RWM		5	1	12		1		
290+50	R2-1	X					6	SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
290+90	R4-4	X					6	"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
291+60	R3-5R				X			RIGHT TURN ONLY	30	36									PROTECT IN PLACE
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
292+67	R4-7	X				3.5		"KEEP RIGHT"	24	30	RWM		5	1	12		1		
	OM3-L	X			X			OBJECT MARKER	12	36	RWM		3						MOUNT BELOW R4-4
292+75	R3-5R	X					11	RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
293+55	R3-5R			X				RIGHT TURN ONLY	30	36									
293+55	R4-4	X			X		11	"BEGIN RT TURN LANE"	36	30	RWM		7.5						MOUNT ON EXIST POST
293+63	R4-7	X				3.5		"KEEP RIGHT"	24	30	RWM		5	1	12		1		
	OM3-L	X			X			OBJECT MARKER	12	36	RWM		3						MOUNT BELOW R4-4
294+62	W4-7L			X				THRU TRAFFIC MERGE LEFT	36	36									
295+55	R3-5R		X				11	RIGHT TURN ONLY	30	36				1	12		1		FROM STA 297+30±
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
296+36	R3-5R	X				6		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
298+35	R3-5R		X				11	RIGHT TURN ONLY	30	36				1	12		1		FROM STA 298+05±
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
298+51	R4-7	X				3.5		"KEEP RIGHT"	24	30	RWM		5	1	12		1		
	OM3-L	X			X			OBJECT MARKER	12	36	RWM		3						MOUNT BELOW R4-4
299+40	R4-7	X				3.5		"KEEP RIGHT"	24	30	RWM		5	1	12		1		
	OM3-L	X			X			OBJECT MARKER	12	36	RWM		3						MOUNT BELOW R4-4
299+70	R3-17	X					11	BIKE LANE	30	24	RWM		5	1	12		1		
300+50	R2-1	X				6		SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
301+72	R2-1				X			"KEEP RIGHT"	24	30									PROTECT IN PLACE
	OM1-2			X				OBJECT MARKER	18	18									
	OM3-L	X			X	3.5		OBJECT MARKER	12	36	RWM		3						MOUNT ON EXIST POLE
302+65	R4-4	X				6		"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
303+75	W1-7	X					11	LEFT/RIGHT ARROW	48	24	RWM		8	2	12		2		
303+92	R2-1				X			"KEEP RIGHT"	24	30									PROTECT IN PLACE
	OM1-2			X				OBJECT MARKER	18	18									
	OM3-L	X			X	3.5		OBJECT MARKER	12	36	RWM		3						MOUNT ON EXIST POLE
304+25	SP-1		X				11	"ADOPT A HIGHWAY"	36	48				2	24		2		FROM STA 305+97±
305+88	OM4-2			X				OBJECT MARKER	18	18									
	OM4-2			X				OBJECT MARKER	18	18									
	OM4-2			X				OBJECT MARKER	18	18									
		29	4	9									141	20	228		20		TOTAL

STA.	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM EP OR LIP Lt (ft)	OFFSET FROM EP OR LIP Rt (ft)	PANEL LEGEND	PANEL SIGN SIZE WIDTH (in)	PANEL SIGN SIZE HEIGHT (in)	PANEL SHEETING TYPE XI AREA (sq. ft.) RWM	PANEL SHEETING TYPE XI AREA (sq. ft.) F-DA	PANEL SHEETING TYPE XI AREA (sq. ft.) SF	GROUND MOUNT POSTS NO. POSTS	GROUND MOUNT POSTS TYPE (length) P (ft)	GROUND MOUNT POSTS TYPE (length) U (ft)	GROUND MOUNT POSTS FOUNDATIONS P (ea)	GROUND MOUNT POSTS FOUNDATIONS U (ea)	REMARKS
HUNT HIGHWAY																			
307+09	W6-3			X				"TWO WAY TRAFFIC"	36	36									
307+35	R8-3a			X	X			NO PARKING	18	18									LEFT SHOULDER
307+35	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
313+08	R8-3a			X	X			NO PARKING	18	18									LEFT SHOULDER
313+08	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
313+10	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
313+10	R3-17	X					11	BIKE LANE	30	24	RWM		5	1	12		1		
319+70	R2-1			X				SPEED LIMIT "45 MPH"	24	30									
	R8-3a			X				NO PARKING	18	18									
319+70	R2-1	X				11		SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
319+70	R2-1	X					11	SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
322+30	R2-1			X				SPEED LIMIT "45 MPH"	24	30									
323+00	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
323+00	R3-17	X					11	BIKE LANE	30	24	RWM		5	1	12		1		
325+00	R1-1		X			18		STOP	30	30				1	12		1		FROM STA 324+65±
325+75	R8-3a			X				NO PARKING	18	18									
326+03	R4-4	X					11	"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
327+23	R3-5R	X					11	RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
327+72	R3-5R			X				RIGHT TURN ONLY	30	36									
329+23	R3-5R	X					11	RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
330+07	W1-7	X				11		LEFT/RIGHT ARROW	48	24	RWM		8	2	12		2		
330+32	R1-1		X					STOP	30	30	RWM			1	12		1		
	D3		X		X			"TUMBLING RIVER RD"	36	8	RWM								MOUNT ABOVE R1-1
	D3		X		X			"HUNT HWY"	36	12	RWM								MOUNT ABOVE R1-1
334+88	R8-3a			X	X			NO PARKING	18	18									LEFT SHOULDER
334+88	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
335+39	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
335+66	R1-1		X					STOP	30	30	RWM			1	12		1		
	D3		X					"CHESTNUT TRAIL"	36	8	RWM								MOUNT ABOVE R1-1
	D3		X					"HUNT HWY"	36	12	RWM								MOUNT ABOVE R1-1
335+88	W1-7	X					11	LEFT/RIGHT ARROW	48	24	RWM		8	2	12		2		
336+37	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
336+37	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
		17	7	12									93.5	19	204		19		TOTAL

P= PERFORATED POSTS
U= U-CHANNEL POST

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

T·Y· LIN INTERNATIONAL
engineers | planners | scientists
60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SIGN SUMMARY

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Striping\662173_112-117_126-127_Striping.dwg 9/28/2015 2:32:54 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

STA.	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM EP OR LIP Lt (ft)	OFFSET FROM EP OR LIP Rt (ft)	PANEL LEGEND	PANEL SIGN SIZE WIDTH (in)	PANEL SIGN SIZE HEIGHT (in)	PANEL SHEETING TYPE XI AREA (sq. ft.) RWM	PANEL SHEETING TYPE XI AREA (sq. ft.) F-DA	PANEL SHEETING TYPE XI AREA (sq. ft.) SF	GROUND MOUNT POSTS NO. POSTS	GROUND MOUNT POSTS TYPE (length) P (ft)	GROUND MOUNT POSTS TYPE (length) U (ft)	GROUND MOUNT POSTS FOUNDATIONS P (ea)	GROUND MOUNT POSTS FOUNDATIONS U (ea)	REMARKS
HUNT HIGHWAY																			
336+45	R3-5R			X				RIGHT TURN ONLY	30	36									
	R8-3a			X				NO PARKING	18	18									
337+79	R3-5R			X				RIGHT TURN ONLY	30	36									
	R8-3a			X				NO PARKING	18	18									
338+37	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
339+37	R4-4	X				11		"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
340+50	R2-1	X				11		SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
340+50	R2-1	X					11	SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
342+20	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
343+09	R8-3a			X	X			NO PARKING	18	18									LEFT SHOULDER
345+00	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
345+00	R3-17	X					11	BIKE LANE	30	24	RWM		5	1	12		1		
350+38	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
350+38	R8-3a			X	X			NO PARKING	18	18									LEFT SHOULDER
352+30	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
352+50	R1-1		X					STOP	30	30	RWM			1	12		1		
	D3		X		X			"PASEO FINO WAY"	36	8	RWM								MOUNT ABOVE R1-1
	D3		X		X			"HUNT HWY"	36	12	RWM								MOUNT ABOVE R1-1
352+79	W1-7	X					11	LEFT/RIGHT ARROW	48	24	RWM		8	2	24		2		
353+28	R3-17	X					11	BIKE LANE	30	24	RWM		5	1	12		1		
353+28	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
353+52	R3-5R			X				RIGHT TURN ONLY	30	36									
351+28	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
355+76	R3-5R			X				RIGHT TURN ONLY	30	36									
356+28	R4-4	X				11		"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
357+38	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
357+48	R8-3a			X	X			NO PARKING	18	18									LEFT SHOULDER
358+50	R2-1	X				11		SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
358+50	R2-1	X					11	SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
359+00	W4-2R			X				LANE ENDS	36	36									
363+87	W4-7L			X				THRU TRAFFIC MERGE LEFT	36	36									
364+41	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
364+72	R1-1		X					STOP	30	30	RWM			1	12		1		
	D3		X		X			"STARDUST WAY"	36	8	RWM								MOUNT ABOVE R1-1
	D3		X		X			"HUNT HWY"	36	12	RWM								MOUNT ABOVE R1-1
364+72	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
364+94	W1-7	X					11	LEFT/RIGHT ARROW	48	24	RWM		8	2	12		2		
365+42	R3-17	X					11	BIKE LANE	30	24	RWM		5	1	12		1		
365+42	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
366+10	R8-3a			X	X			NO PARKING	18	18									LEFT SHOULDER
		22	6	16									121	22	252		22		TOTAL

STA.	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM EP OR LIP Lt (ft)	OFFSET FROM EP OR LIP Rt (ft)	PANEL LEGEND	PANEL SIGN SIZE WIDTH (in)	PANEL SIGN SIZE HEIGHT (in)	PANEL SHEETING TYPE XI AREA (sq. ft.) RWM	PANEL SHEETING TYPE XI AREA (sq. ft.) F-DA	PANEL SHEETING TYPE XI AREA (sq. ft.) SF	GROUND MOUNT POSTS NO. POSTS	GROUND MOUNT POSTS TYPE (length) P (ft)	GROUND MOUNT POSTS TYPE (length) U (ft)	GROUND MOUNT POSTS FOUNDATIONS P (ea)	GROUND MOUNT POSTS FOUNDATIONS U (ea)	REMARKS
HUNT HIGHWAY																			
366+92	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
367+92	R4-4	X				11		"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
368+85	W2-2R			X	X			CROSS ROAD	36	36									LEFT SHOULDER
	W16-8			X	X			"STARDUST TRAIL"	36	8									LEFT SHOULDER
368+90	W2-2R			X	X			SPEED LIMIT "45 MPH"	24	30									RIGHT SHOULDER
371+00	R3-17	X					11	BIKE LANE	30	24	RWM		5	1	12		1		
	R3-17B	X						ENDS	30	12	RWM		2.5						MOUNT BELOW R3-17
372+76	R2-1			X	X			SPEED LIMIT "45 MPH"	24	30									LEFT SHOULDER
372+76	R8-3a			X	X			NO PARKING	18	18									RIGHT SHOULDER
373+00	R2-1	X				11		SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
373+00	R2-1	X					11	SPEED LIMIT "45 MPH"	24	30	RWM		5	1	12		1		
375+00	R3-17	X				11		BIKE LANE	30	24	RWM		5	1	12		1		
376+60	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
377+60	R4-4	X				11		"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
379+25	R3-5R	X				11		RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
380+15	R3-5R			X				RIGHT TURN ONLY	30	36									
380+19	R3-5R	X					11	RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
380+25	R4-4	X				11		"BEGIN RT TURN LANE"	36	30	RWM		7.5	1	12		1		
380+70	SP-1		X			11		"ADOPT A HIGHWAY"	36	48				2	24		2		
381+19	R3-5R	X					11	RIGHT TURN ONLY	30	36	RWM		7.5	1	12		1		
	R3-5f	X			X			"RIGHT LANE"	30	12	RWM		2.5						MOUNT BELOW R3-5R
		18	1	6									95	14	168		14		TOTAL

P= PERFORATED POSTS
U= U-CHANNEL POST

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

T·Y· LIN INTERNATIONAL
engineers | planners | scientists
60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SIGN SUMMARY

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Striping\662173_112-117_126-127_Striping.dwg 9/28/2015 2:33:00 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

PINAL COUNTY – SIGN SUMMARY TABLE

STA	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM EP OR LIP Lt. (Ft)	OFFSET FROM EP OR LIP Rt. (Ft)	PANEL LEGEND	SIGN SIZE WIDTH (In.)	SIGN SIZE HEIGHT (In.)	SHEETING TYPE XI AREA (SQ. FT.) RWM	SHEETING TYPE XI AREA (SQ. FT.) FD–A	SHEETING TYPE XI AREA (SQ. FT.) SF	GROUND MOUNT POSTS NO POSTS	GROUND MOUNT POSTS TYPE (Length) P (ft)	GROUND MOUNT POSTS TYPE (Length) U (ea)	GROUND MOUNT FOUNDATIONS P (ea)	GROUND MOUNT FOUNDATIONS U (ea)	REMARKS
GANZEL ROAD																			
136+25	W1–7	X				8		TWO DIR. LG ARROW	48	24	W		8	2	24		2		
	OM4–2	X			X			OBJECT MARKER	18	18	W		2.25						MOUNT BELOW W1–7
	OM4–2	X			X			OBJECT MARKER	18	18	W		2.25						MOUNT BELOW W1–7
136+26	R1–1	X					6	STOP	30	30	R		6.25	1	12		1		
	D–3	X			X			GANZEL ROAD	36	12	D	3							MOUNT ABOVE R1–1
	D–3	X			X			OMEGA DR.	36	8	D	2							MOUNT ABOVE R1–1
136+40	W1–6R			X		8		ONE DIR. LG ARROW	48	24	W								
	OM4–2			X				OBJECT MARKER	18	18	W								
	OM4–2			X				OBJECT MARKER	18	18	W								
136+40	W1–6L	X					16	ONE DIR. LG ARROW	48	24	W		8	2	24		2		
137+00	R1–1	X				16		STOP	36	36	R		9	1	12		1		
137+00	R1–1	X					4	STOP	36	36	R		9	1	12		1		
	R4–7	X			X			KEEP RIGHT	24	30	R		5						MOUNT BACK – BACK WITH R1–1
	OM3–L	X			X			OBJECT MARKER	12	36	W		3						MOUNT BELOW R4–7
137+68	SP–1			X				NO DUMPING	24	30									
138+50	R3–17	X					16	BIKE LANE	30	24	R		5	1	12		1		
139+00	R3–5R	X				16		RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
139+00	R3–5U	X					4	U–TURN	24	30	R		5	1	12		1		
140+00	R2–1	X					16	SPEED LIMIT "35 MPH"	24	30	R		5	1	12		1		
140+50	W3–1	X				16		STOP AHEAD	30	30	W		6.25	1	12		1		
140+50	W3–1	X					4	STOP AHEAD	30	30	W		6.25	1	12		1		
143+20	R3–5R	X				16		RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
143+20	R3–5U	X					4	U–TURN	24	30	R		5	1	12		1		
144+00	W4–7L	X					16	THRU TRAFFIC MERGE LT	30	30	W		6.25	1	12		1		
148+00	R2–1	X				16		SPEED LIMIT "35 MPH"	24	30	R		5	1	12		1		
149+00	R3–5R	X					16	RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
150+00	R3–17	X					16	BIKE LANE	30	24	R		5	1	12		1		
	R3–17B	X						ENDS	30	12	R		2.5						
150+98	R4–7	X				2		KEEP RIGHT	24	30	R		5	1	12		1		
	OM3–L	X						OBJECT MARKER	12	36	W		3						
151+00	R3–5R	X					16	RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
151+09	W1–7			X				TWO DIR. LG ARROW	48	24	W								
		31		5								5	152	21	252		21		SUB–TOTAL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	9/15
DRAWN	DR	9/15
CHECKED	CSS	9/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SIGN SUMMARY

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 9/28/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

PINAL COUNTY – SIGN SUMMARY TABLE

STA	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM EP OR LIP Lt. (Ft)	OFFSET FROM EP OR LIP Rt. (Ft)	PANEL LEGEND	SIGN SIZE WIDTH (In.)	SIGN SIZE HEIGHT (In.)	SHEETING TYPE XI AREA (SQ. FT.) RWM	SHEETING TYPE XI AREA (SQ. FT.) FD–A	SHEETING TYPE XI AREA (SQ. FT.) SF	GROUND MOUNT POSTS NO POSTS	GROUND MOUNT POSTS TYPE (Length) P (ft)	GROUND MOUNT POSTS TYPE (Length) U (ea)	GROUND MOUNT FOUNDATIONS P (ea)	GROUND MOUNT FOUNDATIONS U (ea)	REMARKS
GANZEL ROAD																			
151+24	R1–1	X					14	STOP	30	30	R		6.25	1	12		1		
	D–3	X						GANZEL ROAD	36	12	D	3							
	D–3	X						DENIM TRAIL	36	8	D	2							
151+78	R1–1	X					14	STOP	30	30	R		6.25	1	12		1		
	D–3	X						GANZEL ROAD	36	12	D	3							
	D–3	X						REBECCA LN.	36	8	D	2							
151+83	R1–1			X				STOP	30	30	R								
152+06	R3–5R	X				16		RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
152+09	R4–7	X				2		KEEP RIGHT	24	30	R		5	1	12		1		
	OM3–L	X						OBJECT MARKER	12	36	W		3						
152+86	R3–17	X				16		BIKE LANE	30	24	R		5	1	12		1		
	R3–17B	X						ENDS	30	12	R		2.5						
153+56	R3–5R	X				16		RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
155+00	R2–1	X					8	SPEED LIMIT "35 MPH"	24	30	R		5	1	12		1		
158+56	W4–7L	X				16		THRU TRAFFIC MERGE LT	30	30	W		6.25	1	12		1		
159+68	R3–6R	X					8	OPT. LANE CONTROL	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
159+50	R2–1	X				14		SPEED LIMIT "35 MPH"	24	30	R		5	1	12		1		
160+50	R3–17	X				14		BIKE LANE	30	24	R		5	1	12		1		
161+51	R3–6R	X					8	OPT. LANE CONTROL	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
162+65	R4–7	X				2		KEEP RIGHT	24	30	R		5	1	12		1		
	OM3–L	X						OBJECT MARKER	12	36	W		3						
161+96	OM1–2			X				OBJECT MARKER	18	18	W								
	OM1–2			X				OBJECT MARKER	18	18	W								
	OM4–2			X				OBJECT MARKER	18	18	W								
163+41	R3–5R	X				8		RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
165+02	R3–5R			X				RIGHT TURN ONLY	30	36	R								
	R3–5f			X				RIGHT LANE	30	12	R								
168+24	R3–5R	X						RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5F	X						RIGHT LANE	30	12	R		2.5						
172+62	R3–5R			X				RIGHT TURN ONLY	30	36	R								
	R3–5f			X				RIGHT LANE	30	12	R								
181+57	W9–2L			X				LANE ENDS MERGE LT	36	36	W								
196+31	R3–17		X		X		14	BIKE LANE	30	24	R			1	12		1		FROM STA 196+31
	R3–17a		X		X			AHEAD	30	12	R								FROM STA 196+31
		28	2	9								10	117.25	16	192		16		SUB–TOTAL

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40 0 40 80 120
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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SIGN SUMMARY

Registered Professional Engineer (Civil)
CERTIFICATE NO. 48279
CARLOS SANCHEZ SORIA
Date Signed 9/28/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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PINAL COUNTY – SIGN SUMMARY TABLE

STA	SIGN CODE	NEW	WORK EXISTING RELOCATE	WORK EXISTING REMOVE & SALVAGE	WORK EXISTING SEE REMARKS	OFFSET FROM EP OR LIP Lt. (Ft)	OFFSET FROM EP OR LIP Rt. (Ft)	PANEL LEGEND	SIGN SIZE WIDTH (In.)	SIGN SIZE HEIGHT (In.)	SHEETING TYPE XI AREA (SQ. FT.) RWM	SHEETING TYPE XI AREA (SQ. FT.) FD–A	SHEETING TYPE XI AREA (SQ. FT.) SF	GROUND MOUNT POSTS NO POSTS	GROUND MOUNT POSTS TYPE (Length) P (ft)	GROUND MOUNT POSTS TYPE (Length) U (ea)	GROUND MOUNT FOUNDATIONS P (ea)	GROUND MOUNT FOUNDATIONS U (ea)	REMARKS
GANZEL ROAD																			
196+64	R3–5R		X		X		12	RIGHT TURN ONLY	30	36	R			1	12		1		FROM STA 196+64
	R3–5f		X		X			RIGHT LANE	30	12	R								FROM STA 196+64
BELLA VISTA ROAD																			
197+30	W11–2		X		X		12	PEDESTRIAN TRAFFIC	36	36	W			1	12		1		FROM STA 197+30
144+72	R3–5R	X				12		RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5F	X						RIGHT LANE	30	12	R		2.5						
145+56	R3–5R			X				RIGHT TURN ONLY	30	36	R								
145+65	R3–5R	X				12		RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5F	X						RIGHT LANE	30	12	R		2.5						
148+81	R3–5R	X					8	RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5F	X						RIGHT LANE	30	12	R		2.5						
149+86	R3–5R	X					8	RIGHT TURN ONLY	30	36	R		7.5	1	12		1		
	R3–5F	X						RIGHT LANE	30	12	R		2.5						
152+60	W2–2L			X				SIDE ROAD	30	30	W								
	W16–8			X				ADV STREET NAME	36	8	W								
	W2–2L	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
157+06	W2–2R			X				SIDE ROAD	30	30	W								
	W16–8			X				ADV STREET NAME	36	8	W								
	W2–2R	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
157+87	R2–1	X						SPEED LIMIT "45 MPH"	24	30	R		5	1	12		1		
164+25	W2–2L			X				SIDE ROAD	30	30	W								
	W2–2L	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
166+81	W2–2R			X				SIDE ROAD	30	30	W								
	W16–8			X				ADV STREET NAME	36	8	W								
	W2–2R	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
168+12	W2–2R			X				SIDE ROAD	30	30	W								
	W16–8			X				ADV STREET NAME	36	8	W								
	W2–2R	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
172+14	W2–2R			X				SIDE ROAD	30	30	W								
	W16–8			X				ADV STREET NAME	36	8	W								
	W2–2R	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
172+69	W2–2L			X				SIDE ROAD	30	30	W								
	W16–8			X				ADV STREET NAME	36	8	W								
	W2–2L	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
176+75	R2–1	X				11		SPEED LIMIT "45 MPH"	24	30	R		5	1	12		1		
176+75	R2–1	X					11	SPEED LIMIT "45 MPH"	24	30	R		5	1	12		1		
		25	3	14									132	9	108		9		SUB–TOTAL

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40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SIGN SUMMARY

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/28/15
ARIZONA, U.S.A.
Expires 9/30/17

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

PINAL COUNTY – SIGN SUMMARY TABLE

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BELLA VISTA ROAD																			
177+58	W2–2L			X				SIDE ROAD	30	30	W								
	W16–8			X				ADV STREET NAME	36	8	W								
	W2–2L	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
183+93	R3–8			X				ADV. INT. LANE CONTROL	30	30	R								
185+98	R3–8			X				ADV. INT. LANE CONTROL	30	30	R								
191+03	W2–2R			X				SIDE ROAD	30	30	W								
	W2–2R	X			X			SIDE ROAD	36	36	W		9						MOUNT ON EXISTING POLE
	W16–8	X			X			ADV STREET NAME	36	8	W		2						MOUNT ON EXISTING POLE
192+25	D9–2		X		X			HOSPITAL	24	24	M			1	12		1		RELOCATE FROM STA 191+03
	M6–1		X		X			LEFT ARROW	24	9	M								RELOCATE FROM STA 191+03
193+82	R2–1		X			8		SPEED LIMIT "45 MPH"	24	30	R			1	12		1		
194+50	SP–2		X			8		ADOPT–A–HIGHWAY	48	24	M			2	24		2		
195+29	W2–2L			X				SIDE ROAD	30	30	W								
	W2–2L	X				8		SIDE ROAD	36	36	W		9	1	12		1		
	W16–8	X						ADV STREET NAME	36	8	W		2						
195+83	R3–6R	X					11	OPT. LANE CONTROL	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
199+07	R3–6R	X					14	OPT. LANE CONTROL	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
200+87	R3–6R	X					6	OPT. LANE CONTROL	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
202+90	W4–2L	X					11	LANE ENDS	36	36	W		9	1	12		1		
202+90	R3–6R	X				6		OPT. LANE CONTROL	30	36	R		7.5	1	12		1		
	R3–5f	X						RIGHT LANE	30	12	R		2.5						
		15	4	6									82	10	120		10		SUB–TOTAL

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40 0 40 80 120
SCALE: 1" = 40'

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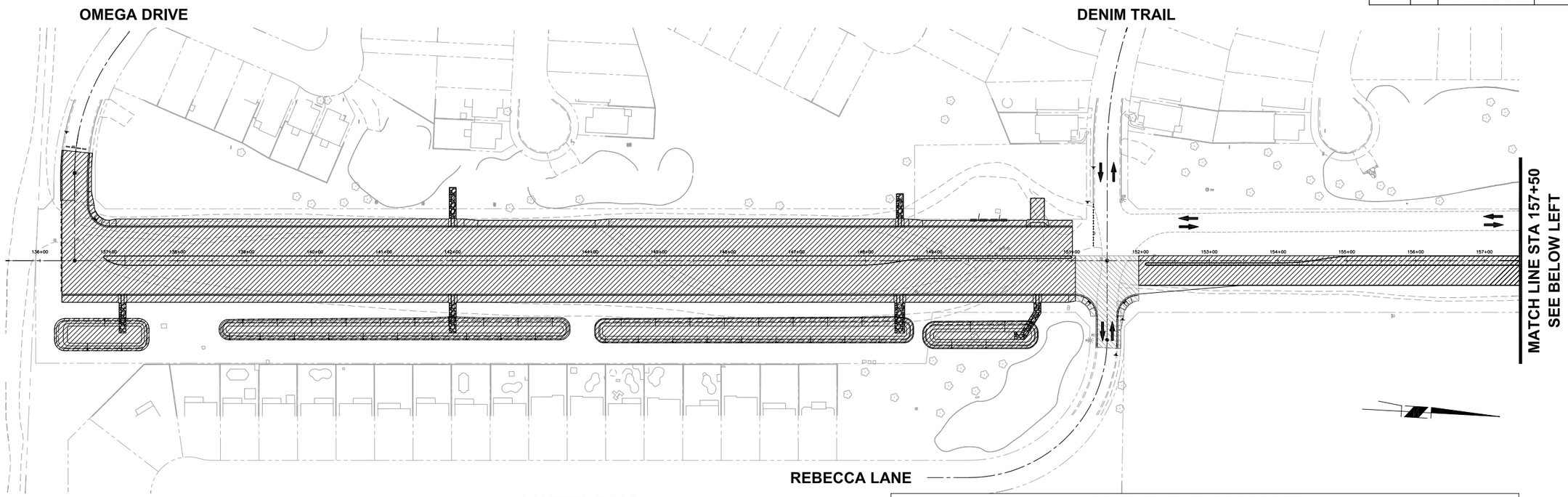
PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

SIGN SUMMARY

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

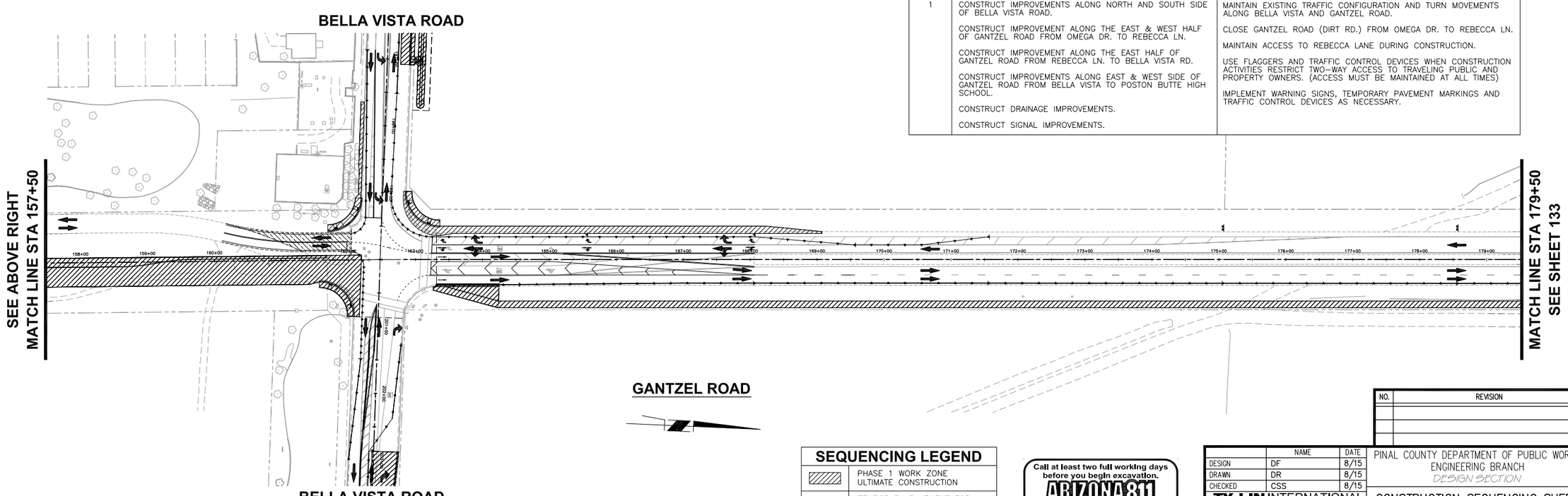
Registered Professional Engineer (Civil)
48279
CARLOS SANCHEZ SORIA
Date Signed 9/28/15
ARIZONA, U.S.A.
Expires 6/30/17

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
1	CONSTRUCT IMPROVEMENTS ALONG NORTH AND SOUTH SIDE OF BELLA VISTA ROAD. CONSTRUCT IMPROVEMENT ALONG THE EAST & WEST HALF OF GANTZEL ROAD FROM OMEGA DR. TO REBECCA LN. CONSTRUCT IMPROVEMENT ALONG THE EAST HALF OF GANTZEL ROAD FROM REBECCA LN. TO BELLA VISTA RD. CONSTRUCT IMPROVEMENTS ALONG EAST & WEST SIDE OF GANTZEL ROAD FROM BELLA VISTA TO POSTON BUTTE HIGH SCHOOL. CONSTRUCT DRAINAGE IMPROVEMENTS. CONSTRUCT SIGNAL IMPROVEMENTS.	MAINTAIN EXISTING TRAFFIC CONFIGURATION AND TURN MOVEMENTS ALONG BELLA VISTA AND GANTZEL ROAD. CLOSE GANTZEL ROAD (DIRT RD.) FROM OMEGA DR. TO REBECCA LN. MAINTAIN ACCESS TO REBECCA LANE DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY.



SCALE: 1"=80'

SEQUENCING LEGEND

	PHASE 1 WORK ZONE ULTIMATE CONSTRUCTION
	TEMPORARY PAVEMENT FOR PHASE I CONSTRUCTION
	DIRECTION OF TRAVEL

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
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DRAWN	DR	8/15
CHECKED	CSS	8/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET
PHASE 1

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED CIVIL ENGINEER
49279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Phasing\2170001_132_PH1_Phase.dwg 8/27/2015 2:59:17 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

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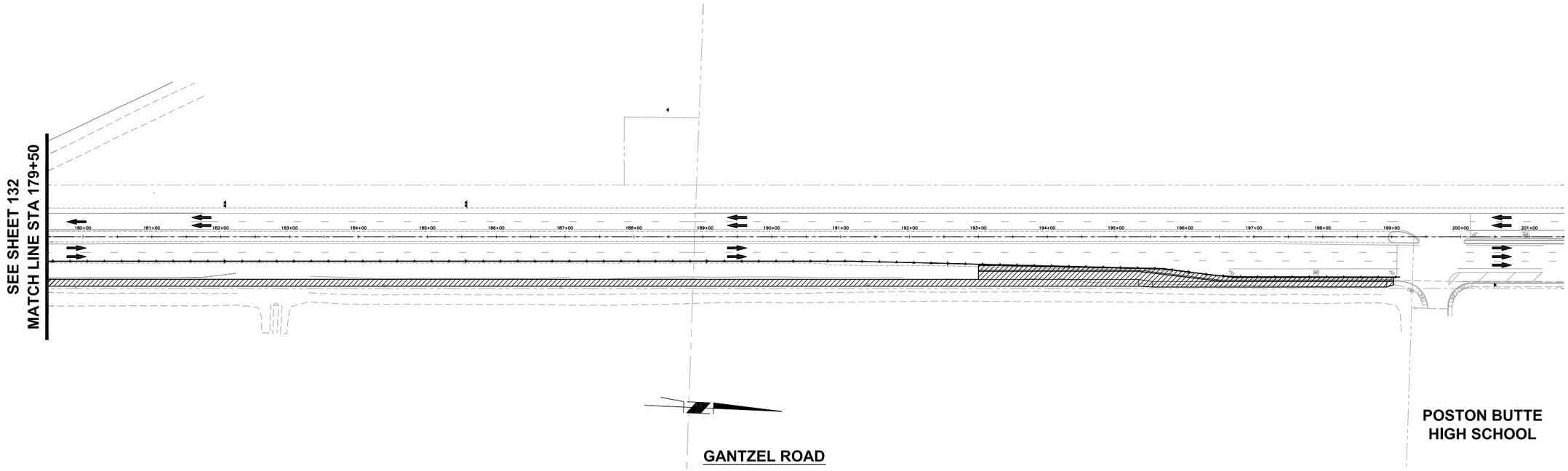

SEQUENCING LEGEND

	PHASE 1 WORK ZONE ULTIMATE CONSTRUCTION
	TEMPORARY PAVEMENT FOR PHASE I CONSTRUCTION
→	DIRECTION OF TRAVEL

80 0 80 160 240

SCALE: 1"=80'

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ENGINEERING BRANCH
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CONSTRUCTION SEQUENCING SHEET PHASE 1

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
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Q:\221792.00 Gantzel Road\Cad\Deliv Files\PHASE 1\Phasing\2170001_133_PH1_Phase.dwg 8/27/2015 3:01:08 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

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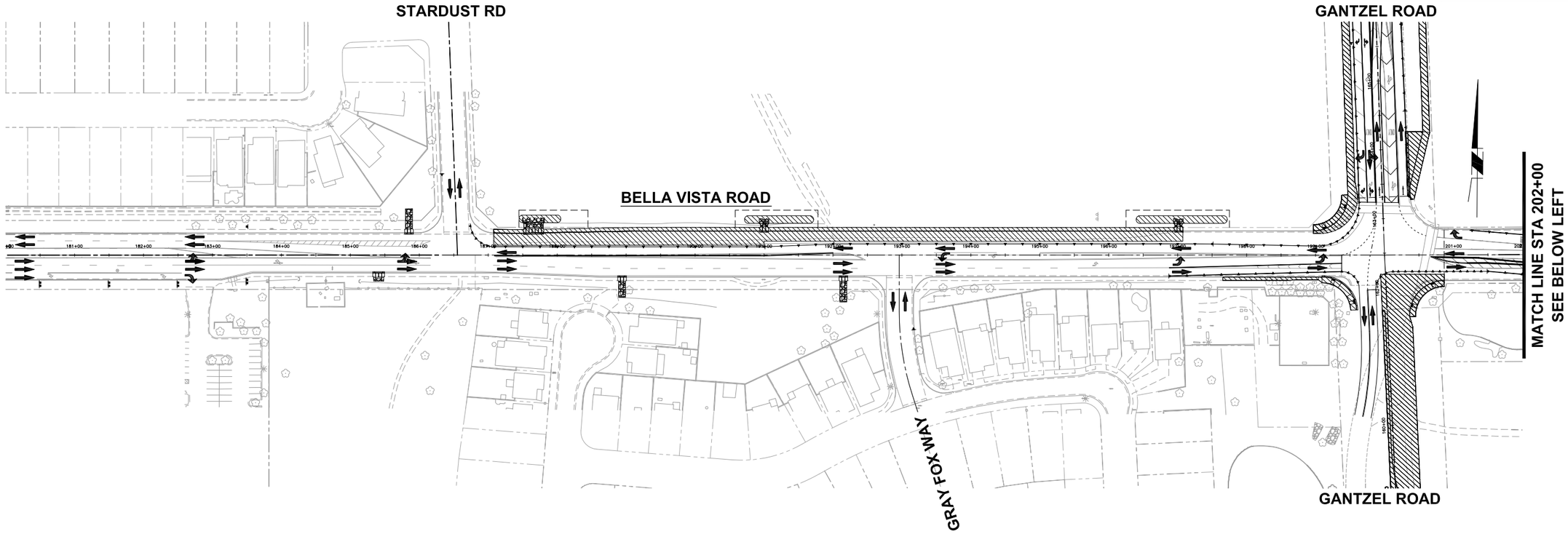

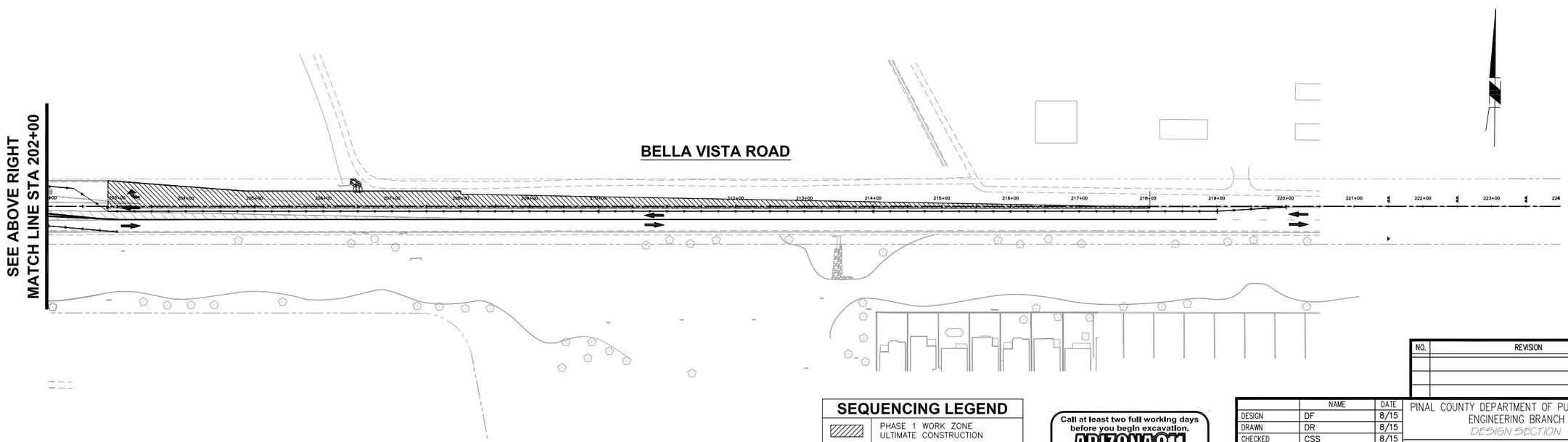

NO.	REVISION	BY	APPR	DATE

SEQUENCING LEGEND

	PHASE 1 WORK ZONE ULTIMATE CONSTRUCTION
	TEMPORARY PAVEMENT FOR PHASE I CONSTRUCTION
→	DIRECTION OF TRAVEL

80 0 80 160 240

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET
PHASE 1

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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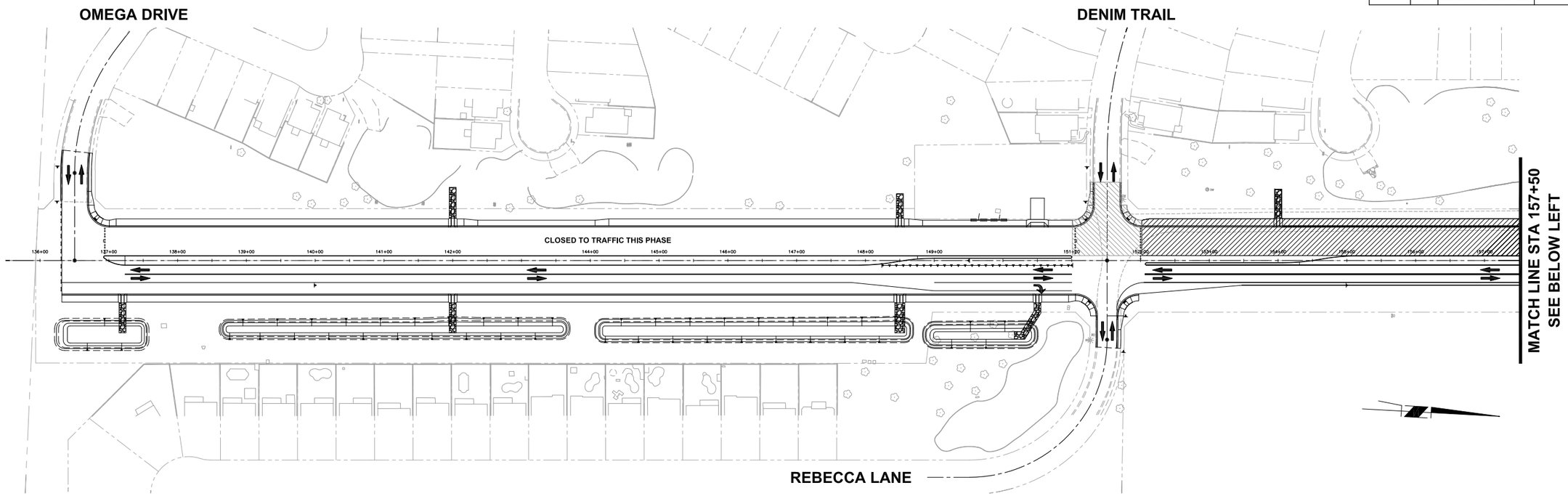
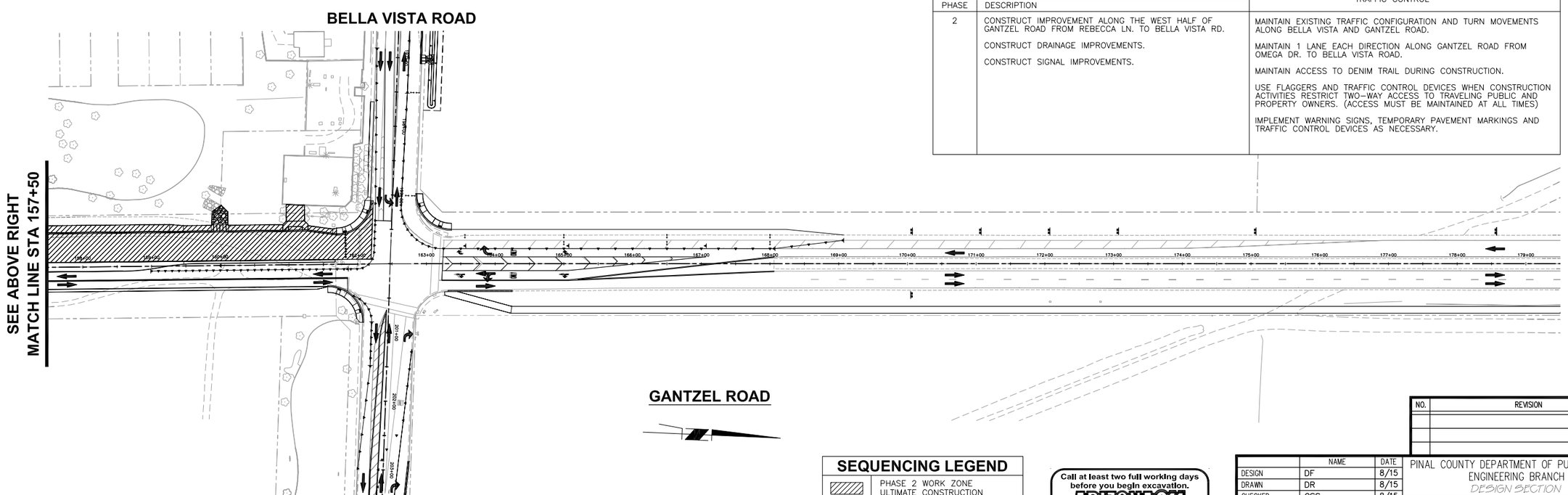
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD

MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
2	CONSTRUCT IMPROVEMENT ALONG THE WEST HALF OF GANTZEL ROAD FROM REBECCA LN. TO BELLA VISTA RD. CONSTRUCT DRAINAGE IMPROVEMENTS. CONSTRUCT SIGNAL IMPROVEMENTS.	MAINTAIN EXISTING TRAFFIC CONFIGURATION AND TURN MOVEMENTS ALONG BELLA VISTA AND GANTZEL ROAD. MAINTAIN 1 LANE EACH DIRECTION ALONG GANTZEL ROAD FROM OMEGA DR. TO BELLA VISTA ROAD. MAINTAIN ACCESS TO DENIM TRAIL DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY.



80 0 80 160 240
SCALE: 1"=80'

SEQUENCING LEGEND

	PHASE 2 WORK ZONE ULTIMATE CONSTRUCTION
	PHASE 2A WORK ZONE ULTIMATE CONSTRUCTION
	DIRECTION OF TRAVEL

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET
PHASE 2

REGISTERED CIVIL ENGINEER
46279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 135 OF 176

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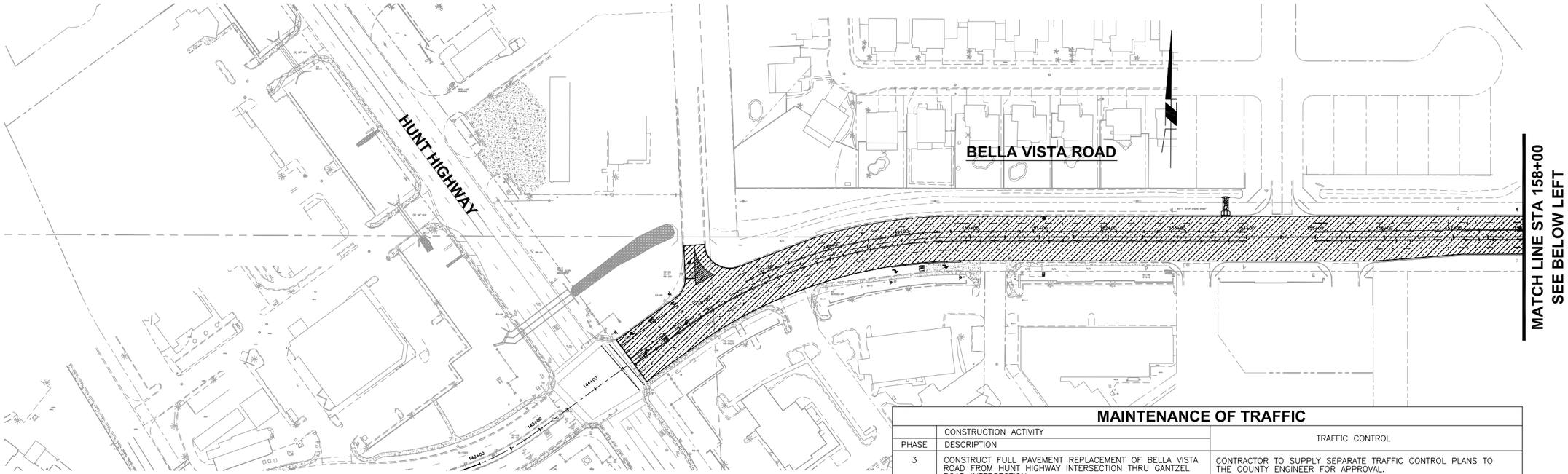
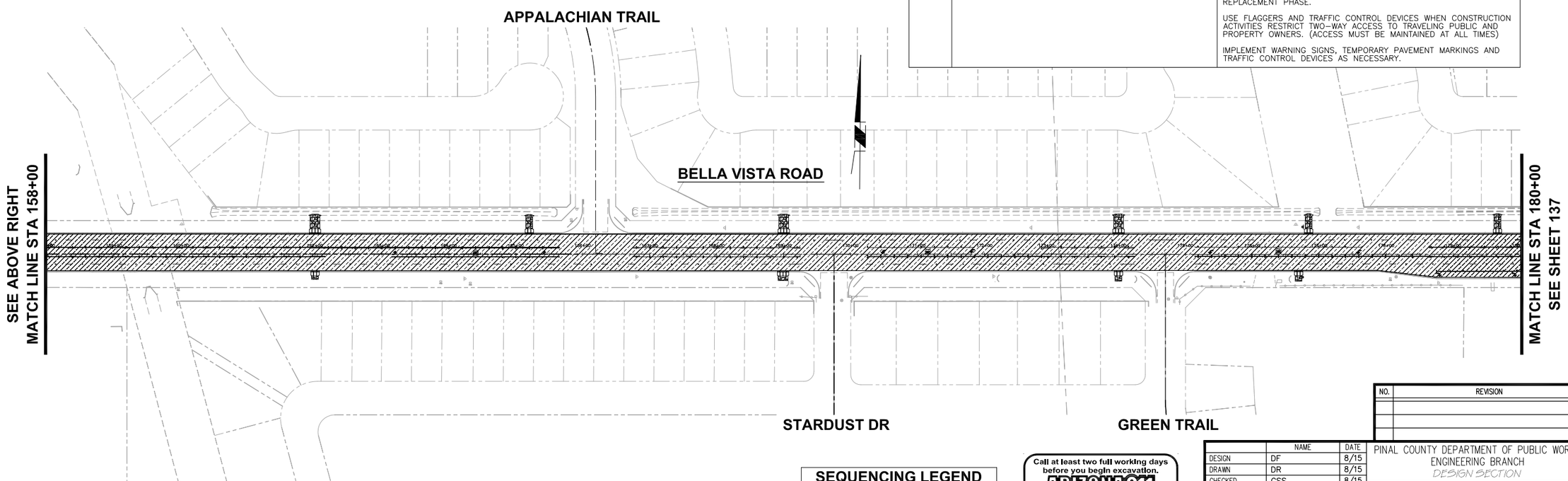
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
3	CONSTRUCT FULL PAVEMENT REPLACEMENT OF BELLA VISTA ROAD FROM HUNT HIGHWAY INTERSECTION THRU GANTZEL ROAD INTERSECTION. MAKE FINAL ADJUSTMENT TO VALVES AND MANHOLES. INSTALL FINAL SIGNING AND PAVEMENT MARKINGS.	CONTRACTOR TO SUPPLY SEPARATE TRAFFIC CONTROL PLANS TO THE COUNTY ENGINEER FOR APPROVAL. MAINTAIN 1 LANE EACH DIRECTION ALONG BELLA VISTA ROAD. MAINTAIN 1 LANE EACH DIRECTION ALONG GANTZEL ROAD. MAINTAIN MINIMUM OF 12' LANES DURING FULL PAVEMENT REPLACEMENT PHASE. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY.



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SCALE: 1"=80'

SEQUENCING LEGEND

	PHASE 3 WORK ZONE ULTIMATE CONSTRUCTION
→	DIRECTION OF TRAVEL

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET
PHASE 3

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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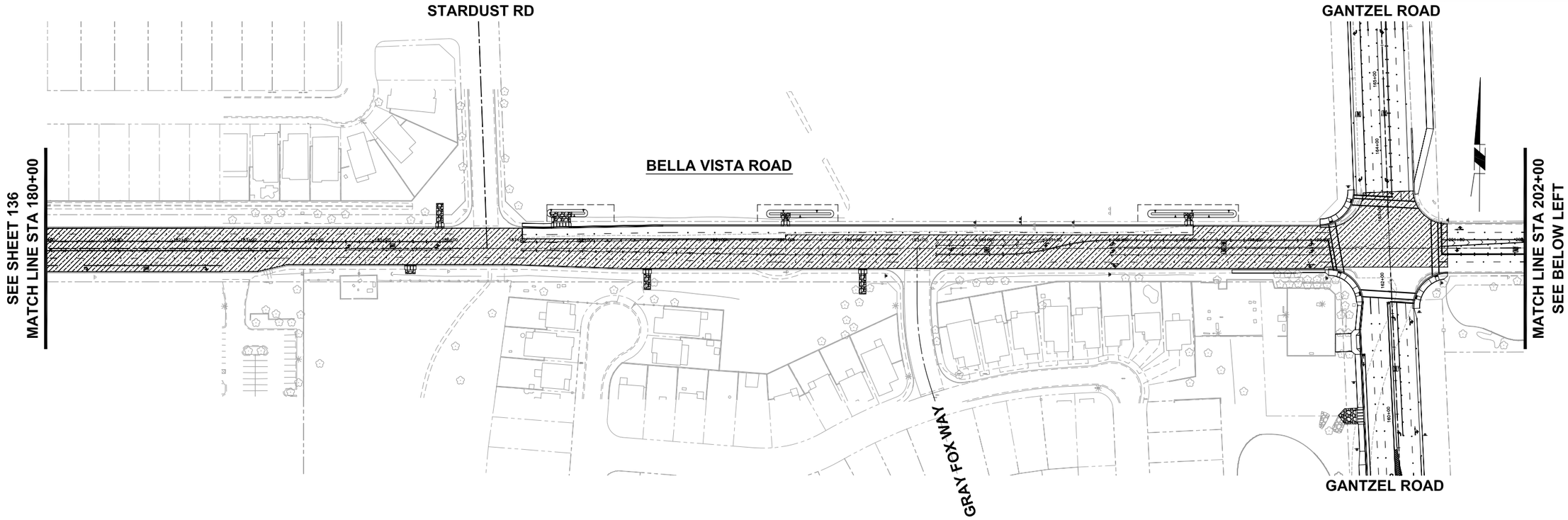
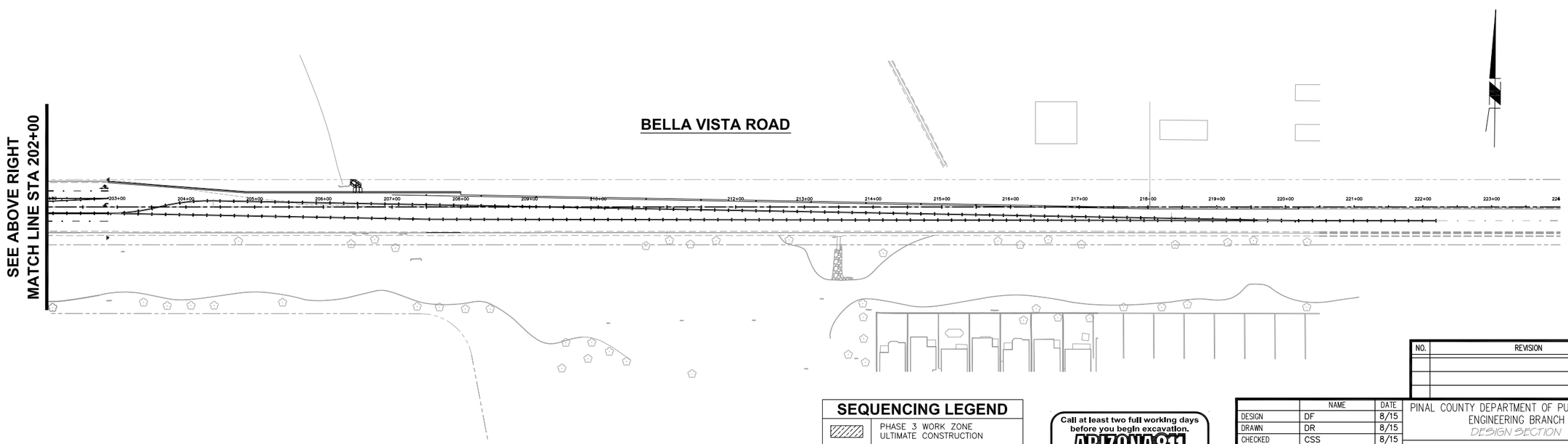
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





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	PHASE 3 WORK ZONE ULTIMATE CONSTRUCTION
	DIRECTION OF TRAVEL

80 0 80 160 240

SCALE: 1"=80'

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CONSTRUCTION SEQUENCING SHEET
PHASE 3

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

SHEET 137 OF 176

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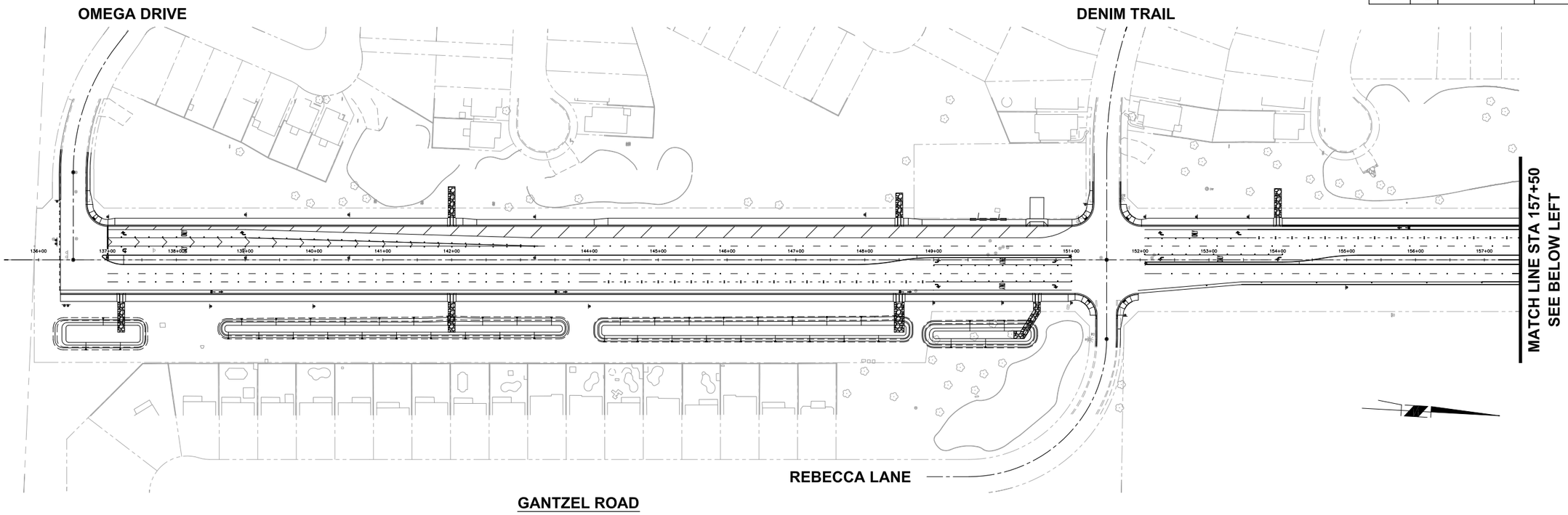

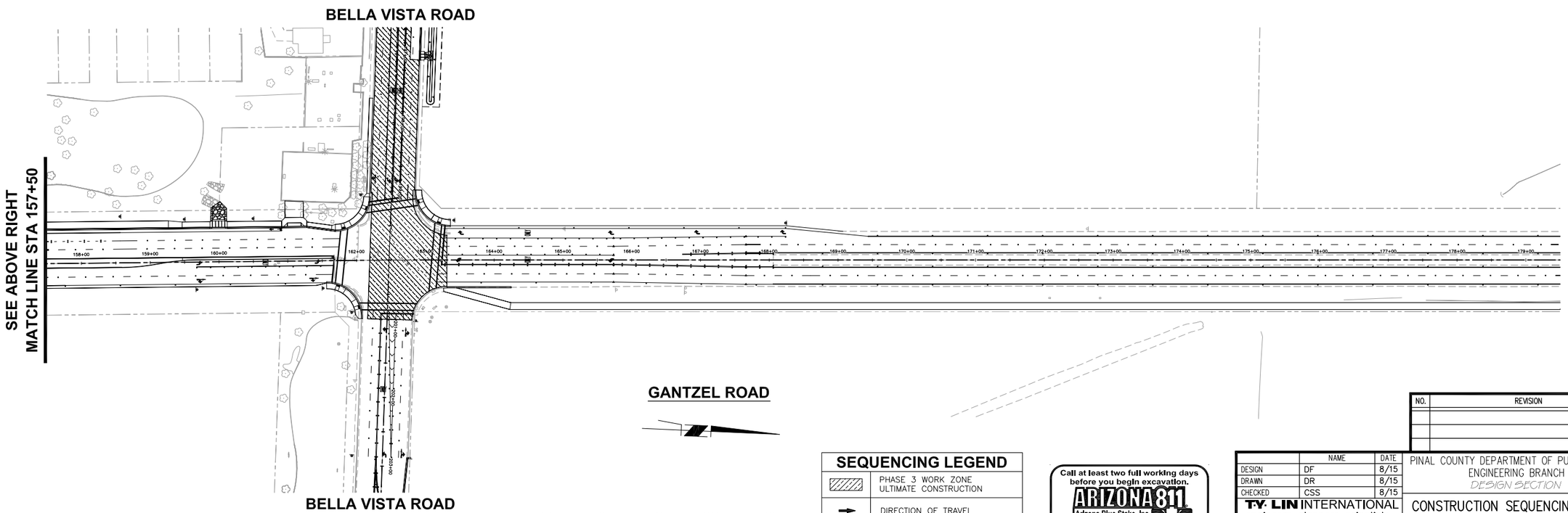

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SCALE: 1"=80'

SEQUENCING LEGEND

	PHASE 3 WORK ZONE ULTIMATE CONSTRUCTION
	DIRECTION OF TRAVEL

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DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET PHASE 3

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
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SHEET 138 OF 176

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9	AZ	62952173 & 662170001			

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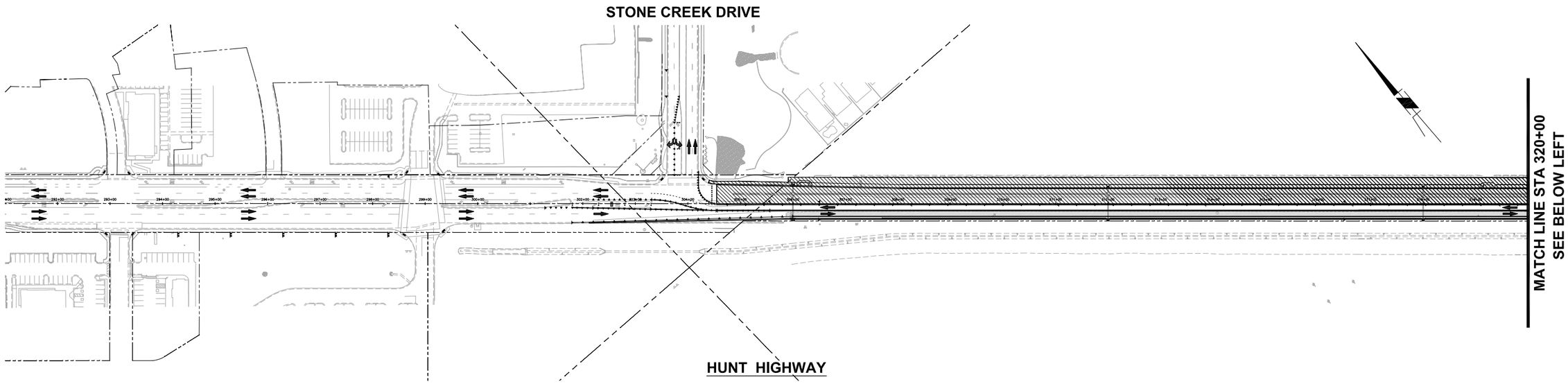
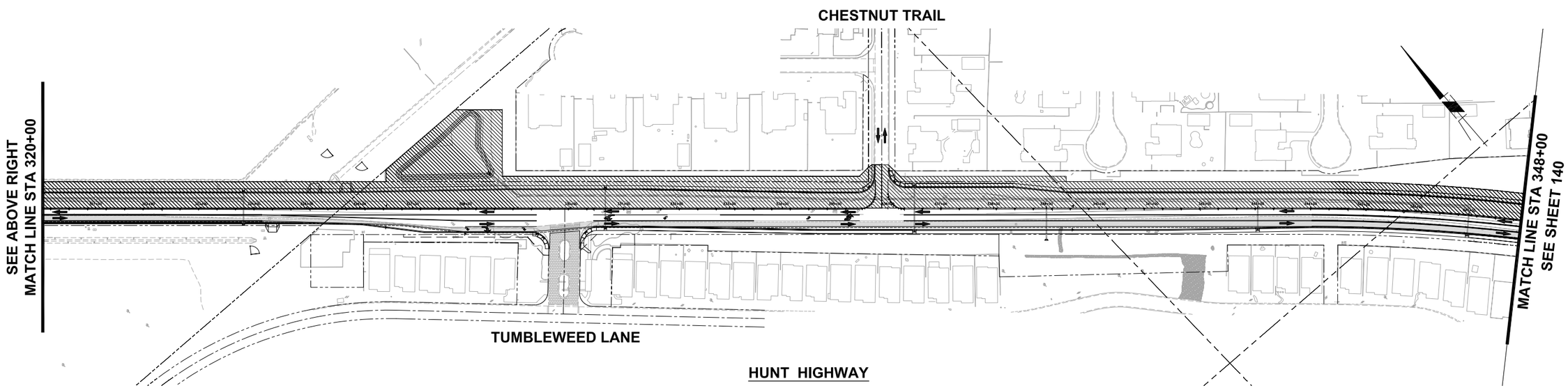
SCALE: 1"=100'





MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
4	CONSTRUCT IMPROVEMENTS ALONG NORTH SIDE OF HUNT HIGHWAY FROM STONE CREEK DRIVE TO BELLA VISTA ROAD. CONSTRUCT SIDEWALK IMPROVEMENTS ALONG NORTH SIDE OF BELLA VISTA ROAD, FROM HUNT HIGHWAY TO IRONWOOD DR. CONSTRUCT DRAINAGE IMPROVEMENTS. COORDINATE AND CONSTRUCT UTILITY RELOCATION WORK WITH CITY OF MESA (GAS LINE) AND JOHNSON UTILITIES (DOMESTIC WATER LINE).	MAINTAIN EXISTING TRAFFIC CONFIGURATION AND TURN MOVEMENTS ALONG HUNT HIGHWAY. MAINTAIN ACCESS TO STONE CREEK DRIVE, TUMBLING RIVER ROAD, CHESTNUT TRAIL, PASEO FINO WAY, AND STARDUST WAY DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY.

SEQUENCING LEGEND

	PHASE 4 WORK ZONE ULTIMATE CONSTRUCTION
	TEMPORARY PAVEMENT
→	DIRECTION OF TRAVEL

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
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PHASE 4

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA U.S.A. Expires 9/30/17

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9	AZ	62952173 & 662170001			

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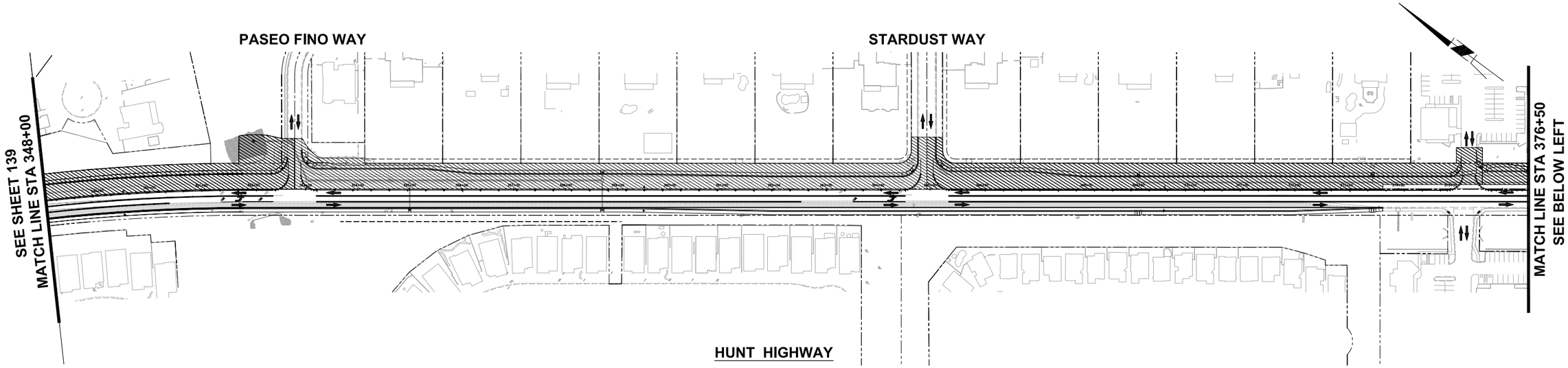

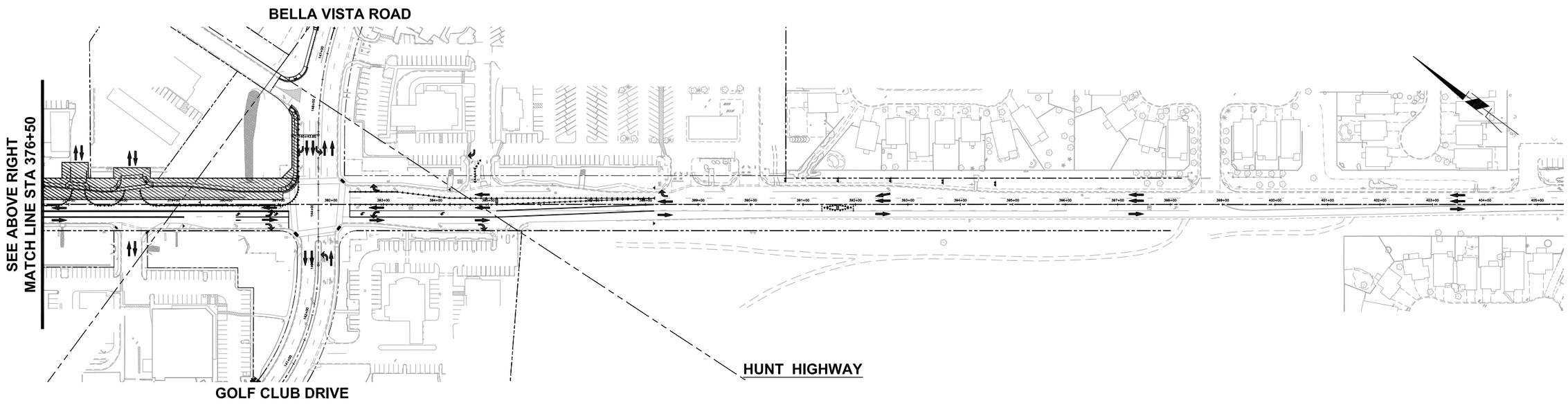

SEQUENCING LEGEND

	PHASE 4 WORK ZONE ULTIMATE CONSTRUCTION
	TEMPORARY PAVEMENT
→	DIRECTION OF TRAVEL

Call at least two full working days before you begin excavation.
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CONSTRUCTION SEQUENCING SHEET
PHASE 4

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 46279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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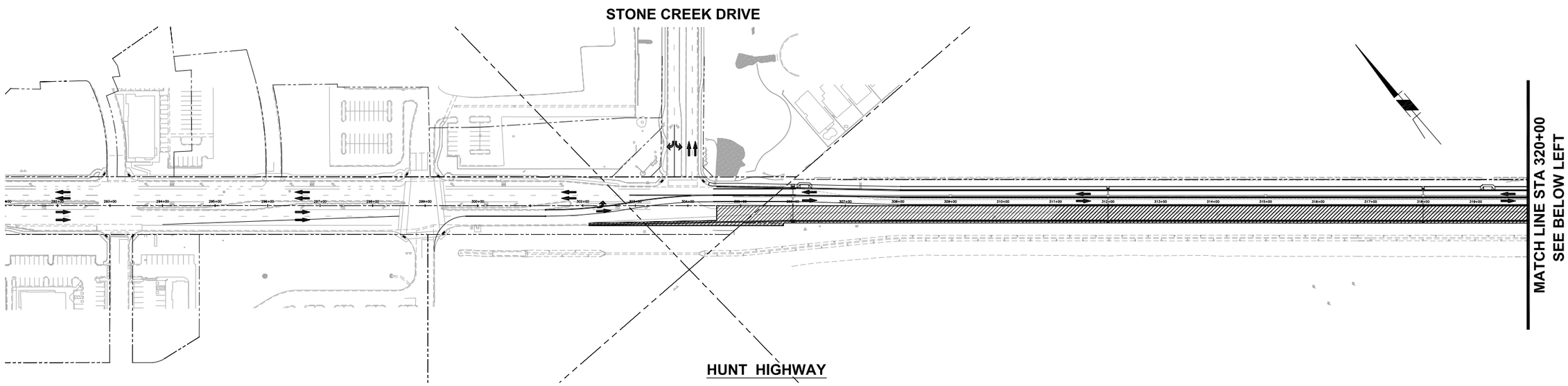

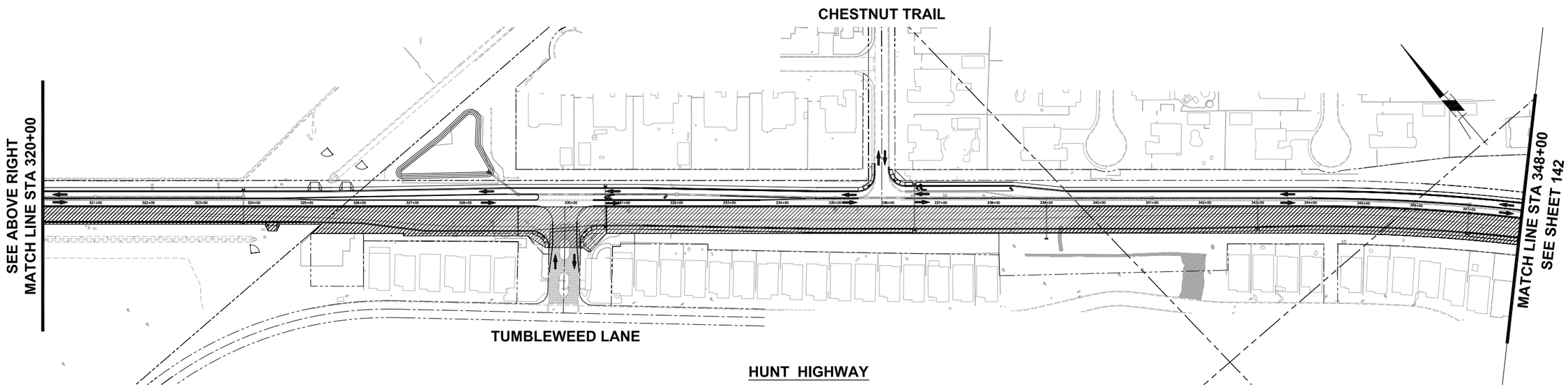

MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
5	CONSTRUCT IMPROVEMENT ALONG THE SOUTH SIDE OF HUNT HIGHWAY FROM STONE CREEK DRIVE TO BELLA VISTA ROAD. CONSTRUCT DRAINAGE IMPROVEMENTS.	MAINTAIN 1 LANE EACH DIRECTION ALONG HUNT HIGHWAY FROM STONE CREEK DRIVE TO BELLA VISTA ROAD. MAINTAIN ACCESS TO STONE CREEK DRIVE, TUMBLING RIVER ROAD, CHESTNUT TRAIL, PASEO FINO WAY, AND STARDUST WAY DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY.

SEQUENCING LEGEND

	PHASE 5 WORK ZONE ULTIMATE CONSTRUCTION
→	DIRECTION OF TRAVEL

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In Maricopa County: (602) 263-1100

NO.	REVISION	BY	APPR	DATE

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET
PHASE 5

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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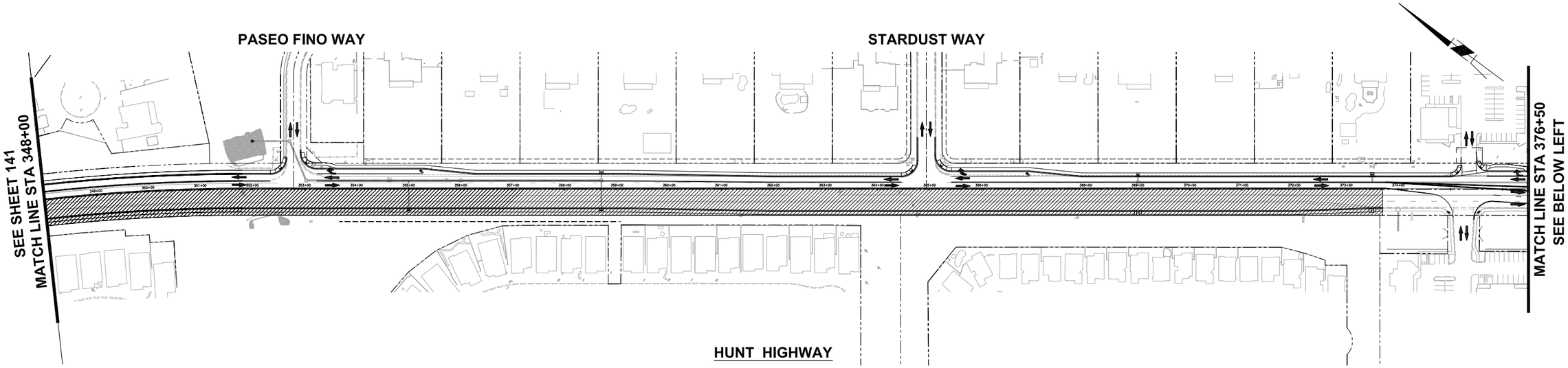

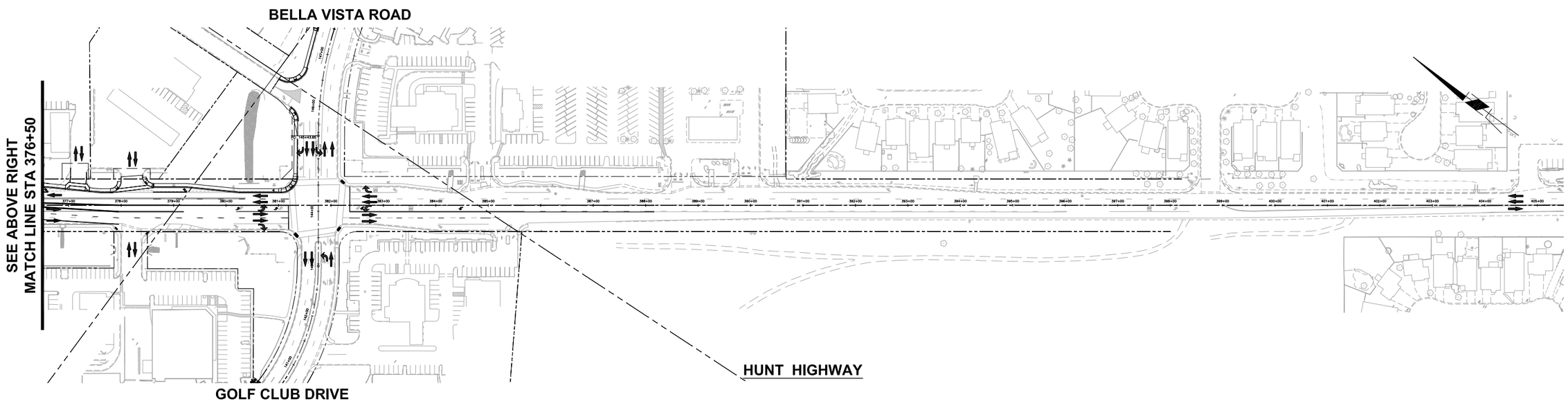

NO.	REVISION	BY	APPR	DATE

SEQUENCING LEGEND

	PHASE 5 WORK ZONE ULTIMATE CONSTRUCTION
→	DIRECTION OF TRAVEL

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ENGINEERING BRANCH
DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET
PHASE 5

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 46279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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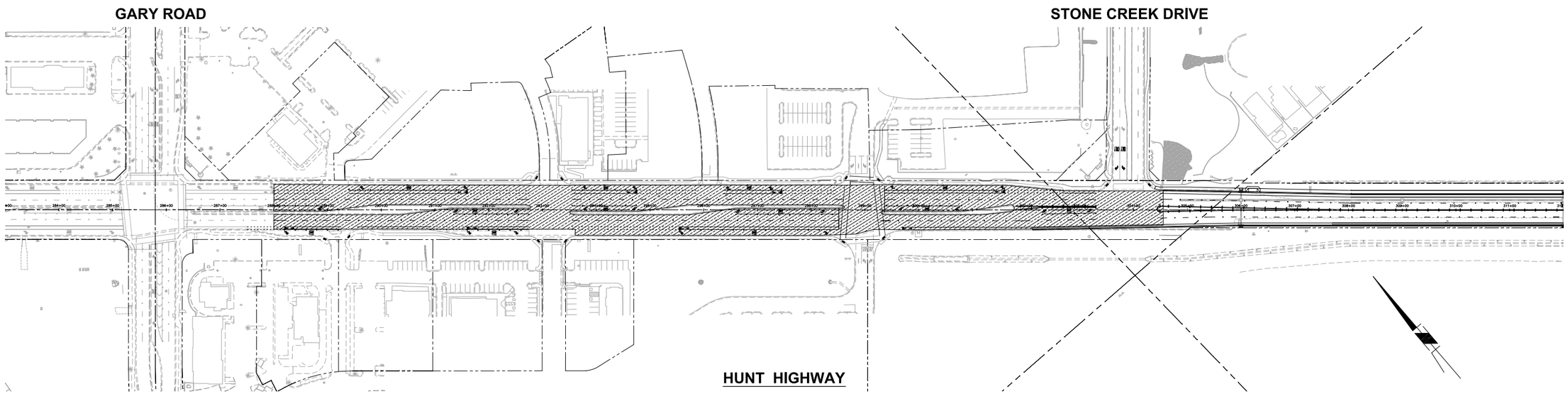
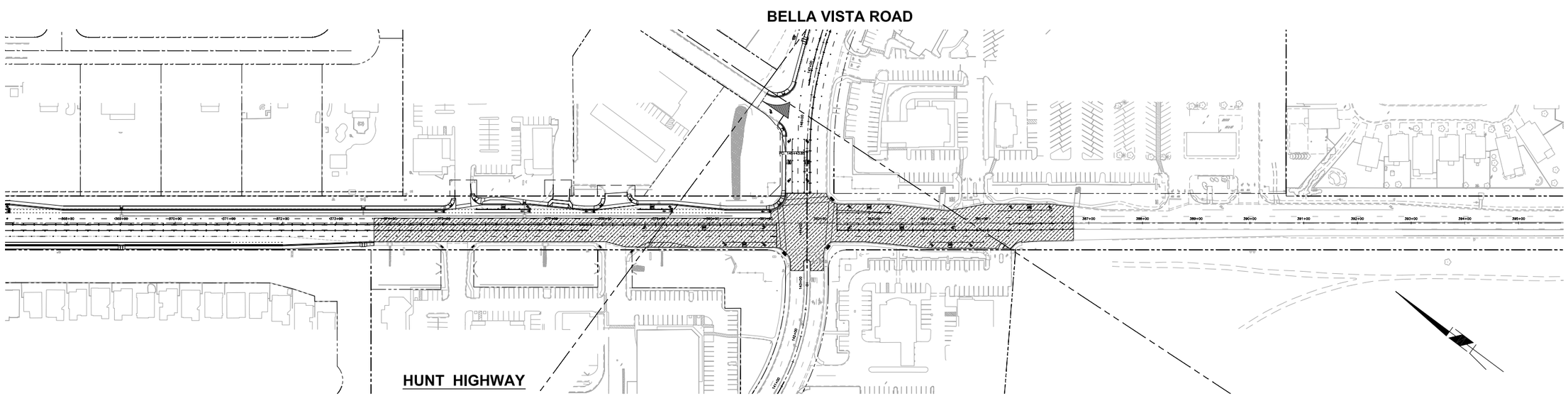
SCALE: 1"=100'





MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
6	CONSTRUCT OVERLAY OF HUNT HIGHWAY FROM GARY ROAD TO STONE CREEK DRIVE AND THRU THE INTERSECTION OF HUNT HIGHWAY AND BELLA VISTA ROAD.	CONTRACTOR TO SUPPLY SEPARATE TRAFFIC CONTROL PLANS TO THE COUNTY ENGINEER FOR APPROVAL. MAINTAIN 1 LANE EACH DIRECTION ALONG HUNT HIGHWAY. MAINTAIN MINIMUM OF 12' LANE DURING OVERLAY PHASE. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY.

SEQUENCING LEGEND

	PHASE 6 WORK ZONE ULTIMATE CONSTRUCTION
→	DIRECTION OF TRAVEL

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In Maricopa County: (602) 263-1100

NO.	REVISION	BY	APPR	DATE

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

CONSTRUCTION SEQUENCING SHEET
PHASE 6

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

TRAFFIC CONTROL NOTES:

1. THE TRAFFIC CONTROL PLANS REPRESENT A SUGGESTED METHOD FOR TRAFFIC CONTROL DURING CONSTRUCTION. THE CONTRACTOR MAY PREPARE ANOTHER TRAFFIC CONTROL PLAN IN ACCORDANCE WITH SECTION 701 OF THE ADOT STANDARD SPECIFICATIONS, LATEST EDITION. ALL TRAFFIC CONTROL PLANS ARE SUBJECT TO THE APPROVAL OF THE ADOT ENGINEER BEFORE BEGINNING CONSTRUCTION. ADJUSTMENTS TO THE DETAIL OF THESE TRAFFIC CONTROL PLANS AND REQUIREMENTS MAY BE NECESSARY DUE TO CONSTRUCTION ACTIVITIES, AS DIRECTED BY THE ENGINEER AND APPROVAL FROM PINAL COUNTY.
2. ALL EXISTING SIGNS IN CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE REMOVED, RELOCATED, OR COVERED IN PLACE, AS DIRECTED BY THE ADOT ENGINEER. THE CONTRACTOR SHALL STORE AND REINSTALL ITEMS WHICH HAVE BEEN REMOVED OR RELOCATED IN A MANNER APPROVED BY THE ENGINEER AND PINAL COUNTY.
3. THE RETRO REFLECTIVE SHEETING ON ALL CONSTRUCTION SIGNS SHALL MEET CRITERIA ESTABLISHED IN SECTION 1007 OF THE ADOT STANDARD SPECIFICATIONS, LATEST EDITION.
4. FOR SIGNS INSTALLED ON EMBEDDED POSTS, SIGN MOUNTING HEIGHT IS A MINIMUM OF 7 FEET AS MEASURED FROM THE BOTTOM OF THE SIGN TO THE NEAR EDGE OF THE PAVEMENT. ALL OTHER SHORT-TERM SIGNS SHALL BE INSTALLED AS PER CHAPTER 6 OF THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL.
5. THE NEAREST EDGE OR CORNER OF A SIGN SHALL BE APPROXIMATELY 12 FEET FROM THE NEAREST EDGE OF PAVEMENT FOR ALL SIGNS MOUNTED ON EMBEDDED POSTS.
6. FLAGS SHALL BE MOUNTED ON TOP OF ALL CONSTRUCTION SIGNS EXCEPT THE "END ROAD WORK THANK YOU" CONSTRUCTION SIGN. TYPE 'A' FLASHING WARNING LIGHTS SHALL BE REQUIRED ON ALL NIGHTTIME CONSTRUCTION SIGNS.
7. A TYPE 'C' STEADY-BURNING YELLOW LIGHT SHALL BE MOUNTED ON EVERY CHANNELIZING DEVICE ON TAPERS AND ALTERNATING CHANNELIZING DEVICES ALONG TANGENT SECTIONS.
8. CHANNELING DEVICES SHALL BE PLACED 25 FEET O.C. IN TAPERS, EXCEPT AS OTHERWISE NOTED ON PLANS.
9. CONSTRUCTION SIGNS SHALL NOT BE DISPLAYED TO TRAFFIC MORE THAN 24 HOURS PRIOR TO THE ACTUAL START OF CONSTRUCTION. THESE SIGNS MAY BE INSTALLED SOONER BUT THEY MUST BE COVERED OR TURNED AWAY FROM TRAFFIC. THE COST FOR COVERING OR TURNING THEM SHALL BE CONSIDERED PART OF THE SIGN INSTALLATION COST. NO FURTHER COMPENSATION WILL BE MADE. THESE SIGNS SHALL BE REMOVED WITHIN 24 HOURS AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES.
10. WHEN TRAFFIC CONTROL DEVICES ARE NOT IN USE, THEY SHALL BE MOVED AT LEAST 30 FEET FROM THE ROADWAY.
11. THE CONTRACTOR SHALL MAINTAIN TWO-WAY TRAFFIC ON ALL ROADWAYS AT NIGHT, ON WEEKENDS, ON HOLIDAYS, AND AS DIRECTED BY PINAL COUNTY.
12. SPEED LIMIT SIGNING IS PRELIMINARY AND IS SUBJECT TO REVIEW AND CHANGE BY THE ADOT ENGINEER AS DICTATED BY FIELD CONDITIONS.
13. THE CONTRACTOR SHALL PLACE TEMPORARY ASPHALT PAVEMENT, FOR THE PURPOSE OF TRAFFIC CONTROL, CONSISTING OF 2 INCHES OF AC ON COMPACTED NATIVE SOIL PER THE LIMITS SHOWN ON THE TRAFFIC CONTROL PLANS. ASPHALTIC CONCRETE SHALL MEET THE REQUIREMENTS OF ADOT STANDARD SPECIFICATIONS SECTION 409.
14. ANY EXISTING ABOVE GROUND UTILITIES IN CONFLICT WITH ANY PORTION OF THE TEMPORARY PAVEMENT, OR FALL WITHIN THE CLEAR ZONE OF TRAFFIC USING THE TEMPORARY PAVEMENT, SHALL BE RELOCATED TO THE FINAL DESIGN LOCATION PRIOR TO THE OPENING OF THE TEMPORARY PAVEMENT TO TRAFFIC. IN THE CASE THAT THE RELOCATED UTILITIES FALL WITHIN THE CLEAR ZONE OF TRAFFIC USING THE TEMPORARY PAVEMENT THEY SHALL BE PROTECTED APPROPRIATELY.
15. ALL SIGNS TO REMAIN UNCOVERED DURING CONSTRUCTION THAT ARE IN CONFLICT WITH PLACEMENT OF TEMPORARY PAVEMENT SHALL BE RELOCATED PERPENDICULARLY TO THE CENTER LINE AND PLACED NOT LESS THAN 6 FEET FROM THE EDGE OF TEMPORARY PAVEMENT AT NO COST TO THE DEPARTMENT.

SYMBOL LEGEND

	TEMPORARY PAVEMENT
	WORK ZONE
	DIRECTION OF TRAVEL
	SIGN ON RIGID STAND
	SIGN ON EMBEDDED POST(S)
	SIGN ON SPRING STAND
	VERTICAL PANEL
	TEMPORARY CONCRETE BARRIER
	ADIEM, 30' TEMPORARY CRASH CUSHION
	FLASHING ARROW PANEL
	FLAG TREE
	FLAGGER
	TYPE II BARRICADE
	TYPE II BARRICADE W/SIGN
	TYPE III BARRICADE
	TYPE III BARRICADE W/SIGN
	"TURN ARROW" (LT OR RT) TEMPORARY PAVEMENT MARKING
4DTW	4" BROKEN WHITE LINE (PAINT) 2' LINE SEGMENT W/4' GAP
4DY	4" DOUBLE YELLOW LINE (PAINT)
4SY	4" SOLID YELLOW LINE (PAINT)
4SBY	4" DOUBLE YELLOW LINE (PAINT) ONE SOLID, ONE BROKEN WITH A 10' LINE SEGMENT W/30' GAP
8SW	8" SOLID WHITE LINE (PAINT)
4SW	4" SOLID WHITE LINE (PAINT)
4BW	4" BROKEN WHITE LINE (PAINT) 10' LINE SEGMENT W/30' GAP
18SW	18" SOILD WHITE (PAINT) "STOP BAR"
EX	EXISTING STRIPING TO REMAIN PROTECT IN PLACE

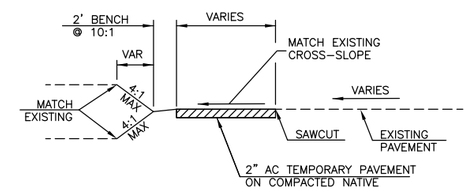
TRAFFIC CONTROL DESIGN

PHASE	STREET NAME	EXISTING POSTED SPEED	CONST. POSTED SPEED
1	BELLA VISTA ROAD	45 MPH	25 MPH
	GANTZEL ROAD	45 MPH	25 MPH
2	BELLA VISTA ROAD	45 MPH	25 MPH
	GANTZEL ROAD	45 MPH	25 MPH
3*	BELLA VISTA ROAD	45 MPH	25 MPH
	GANTZEL ROAD	45 MPH	25 MPH
4	HUNT HIGHWAY	45 MPH	25 MPH
5	HUNT HIGHWAY	45 MPH	25 MPH
6*	HUNT HIGHWAY	45 MPH	25 MPH

* CONTRACTOR TO SUPPLY SEPARATE TRAFFIC CONTROL PLANS TO THE COUNTY ENGINEER FOR APPROVAL.

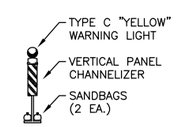
TEMPORARY PAVEMENT SECTION

NOT TO SCALE



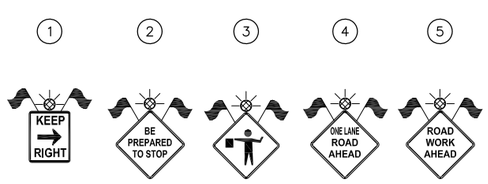
TEMPORARY PAVEMENT DETAIL

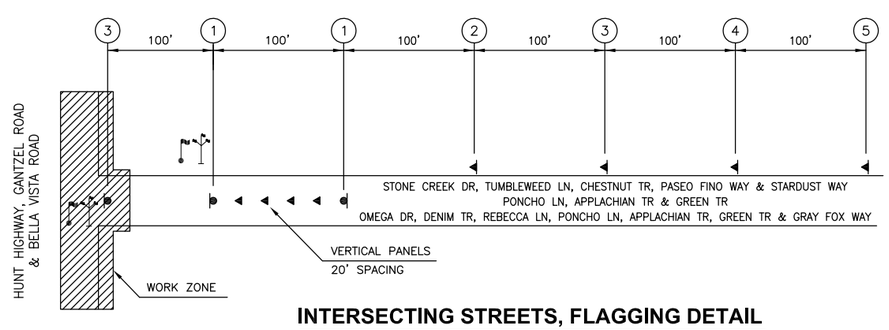
NOT TO SCALE



VERTICAL PANEL

NOT TO SCALE





INTERSECTING STREETS, FLAGGING DETAIL

NOT TO SCALE

NOTE: TURN ALL SIGNS AWAY FROM TRAFFIC WHEN CONSTRUCTION ACTIVITIES AT INTERSECTION DO NOT RESTRICT TWO-WAY ACCESS.

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
GENERAL NOTES & DETAILS

Contract Plans 100%
NOT FOR CONSTRUCTION OR RECORDING
Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 143 OF 176

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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

GANTZEL ROAD D-1 OMEGA DR TO POSTON BUTTE HIGH SCHOOL

MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
1	CONSTRUCT IMPROVEMENTS ALONG NORTH AND SOUTH SIDE OF BELLA VISTA ROAD. CONSTRUCT IMPROVEMENT ALONG THE EAST & WEST HALF OF GANTZEL ROAD FROM OMEGA DR. TO REBECCA LN. CONSTRUCT IMPROVEMENT ALONG THE EAST HALF OF GANTZEL ROAD FROM REBECCA LN. TO BELLA VISTA RD. CONSTRUCT IMPROVEMENTS ALONG EAST & WEST SIDE OF GANTZEL ROAD FROM BELLA VISTA TO POSTON BUTTE HIGH SCHOOL. CONSTRUCT DRAINAGE IMPROVEMENTS. CONSTRUCT SIGNAL IMPROVEMENTS.	MAINTAIN EXISTING TRAFFIC CONFIGURATION AND TURN MOVEMENTS ALONG BELLA VISTA AND GANTZEL ROAD. CLOSE GANTZEL ROAD (DIRT RD.) FROM OMEGA DR. TO REBECCA LN. MAINTAIN ACCESS TO REBECCA LANE DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY PER PINAL COUNTY (TYP).
2	CONSTRUCT IMPROVEMENT ALONG THE WEST HALF OF GANTZEL ROAD FROM REBECCA LN. TO BELLA VISTA RD. CONSTRUCT DRAINAGE IMPROVEMENTS. CONSTRUCT SIGNAL IMPROVEMENTS.	MAINTAIN EXISTING TRAFFIC CONFIGURATION AND TURN MOVEMENTS ALONG BELLA VISTA AND GANTZEL ROAD. MAINTAIN 1 LANE EACH DIRECTION ALONG GANTZEL ROAD FROM OMEGA DR. TO BELLA VISTA ROAD. MAINTAIN ACCESS TO DENIM TRAIL DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY PER PINAL COUNTY (TYP).
3	CONSTRUCT FULL PAVEMENT REPLACEMENT OF BELLA VISTA ROAD FROM HUNT HIGHWAY INTERSECTION THRU GANTZEL ROAD INTERSECTION. MAKE FINAL ADJUSTMENT TO VALVES AND MANHOLES. INSTALL FINAL SIGNING AND PAVEMENT MARKINGS.	**CONTRACTOR TO SUPPLY SEPARATE TRAFFIC CONTROL PLANS TO THE COUNTY ENGINEER FOR APPROVAL.** MAINTAIN 1 LANE EACH DIRECTION ALONG BELLA VISTA ROAD. MAINTAIN 1 LANE EACH DIRECTION ALONG GANTZEL ROAD. MAINTAIN MINIMUM OF 12' LANE DURING FULL PAVEMENT REPLACEMENT PHASE. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY PER PINAL COUNTY (TYP).

HUNT HIGHWAY PHASE 3 - GARY ROAD TO GOLF CLUB DRIVE

MAINTENANCE OF TRAFFIC

PHASE	CONSTRUCTION ACTIVITY DESCRIPTION	TRAFFIC CONTROL
4	CONSTRUCT IMPROVEMENTS ALONG NORTH SIDE OF HUNT HIGHWAY FROM STONE CREEK DRIVE TO BELLA VISTA ROAD. CONSTRUCT SIDEWALK IMPROVEMENTS ALONG NORTH SIDE OF BELLA VISTA ROAD, FROM HUNT HIGHWAY TO IRONWOOD DR. CONSTRUCT DRAINAGE IMPROVEMENTS.	MAINTAIN EXISTING TRAFFIC CONFIGURATION AND TURN MOVEMENTS ALONG HUNT HIGHWAY. MAINTAIN ACCESS TO STONE CREEK DRIVE, TUMBLING RIVER ROAD, CHESTNUT TRAIL, PASEO FINO WAY, AND STARDUST WAY DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY PER PINAL COUNTY (TYP).
5	CONSTRUCT IMPROVEMENTS ALONG NORTH SIDE OF HUNT HIGHWAY FROM STONE CREEK DRIVE TO BELLA VISTA ROAD. CONSTRUCT SIDEWALK IMPROVEMENTS ALONG NORTH SIDE OF BELLA VISTA ROAD, FROM HUNT HIGHWAY TO IRONWOOD DR. CONSTRUCT DRAINAGE IMPROVEMENTS. COORDINATE AND CONSTRUCT UTILITY RELOCATION WORK WITH CITY OF MESA (GAS LINE) AND JOHNSON UTILITIES (DOMESTIC WATER LINE).	MAINTAIN 1 LANE EACH DIRECTION ALONG HUNT HIGHWAY FROM STONE CREEK DRIVE TO BELLA VISTA ROAD. MAINTAIN ACCESS TO STONE CREEK DRIVE, TUMBLING RIVER ROAD, CHESTNUT TRAIL, PASEO FINO WAY, AND STARDUST WAY DURING CONSTRUCTION. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY PER PINAL COUNTY (TYP).
6	CONSTRUCT OVERLAY OF HUNT HIGHWAY FROM GARY ROAD TO STONE CREEK DRIVE AND THRU THE INTERSECTION OF HUNT HIGHWAY AND BELLA VISTA ROAD.	**CONTRACTOR TO SUPPLY SEPARATE TRAFFIC CONTROL PLANS TO THE COUNTY ENGINEER FOR APPROVAL.** MAINTAIN 1 LANE EACH DIRECTION ALONG HUNT HIGHWAY. MAINTAIN MINIMUM OF 12' LANE DURING OVERLAY PHASE. USE FLAGGERS AND TRAFFIC CONTROL DEVICES WHEN CONSTRUCTION ACTIVITIES RESTRICT TWO-WAY ACCESS TO TRAVELING PUBLIC AND PROPERTY OWNERS. (ACCESS MUST BE MAINTAINED AT ALL TIMES) IMPLEMENT WARNING SIGNS, TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES AS NECESSARY PER PINAL COUNTY (TYP).

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL QUANTITIES

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

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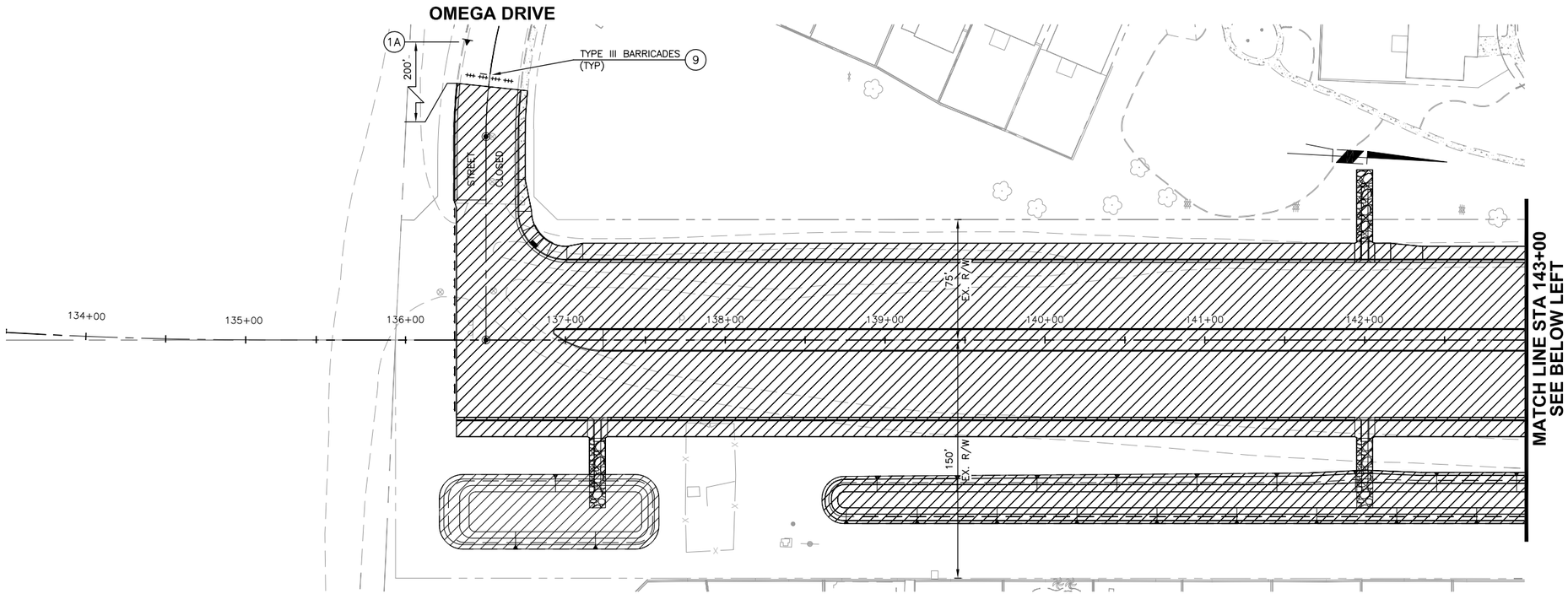

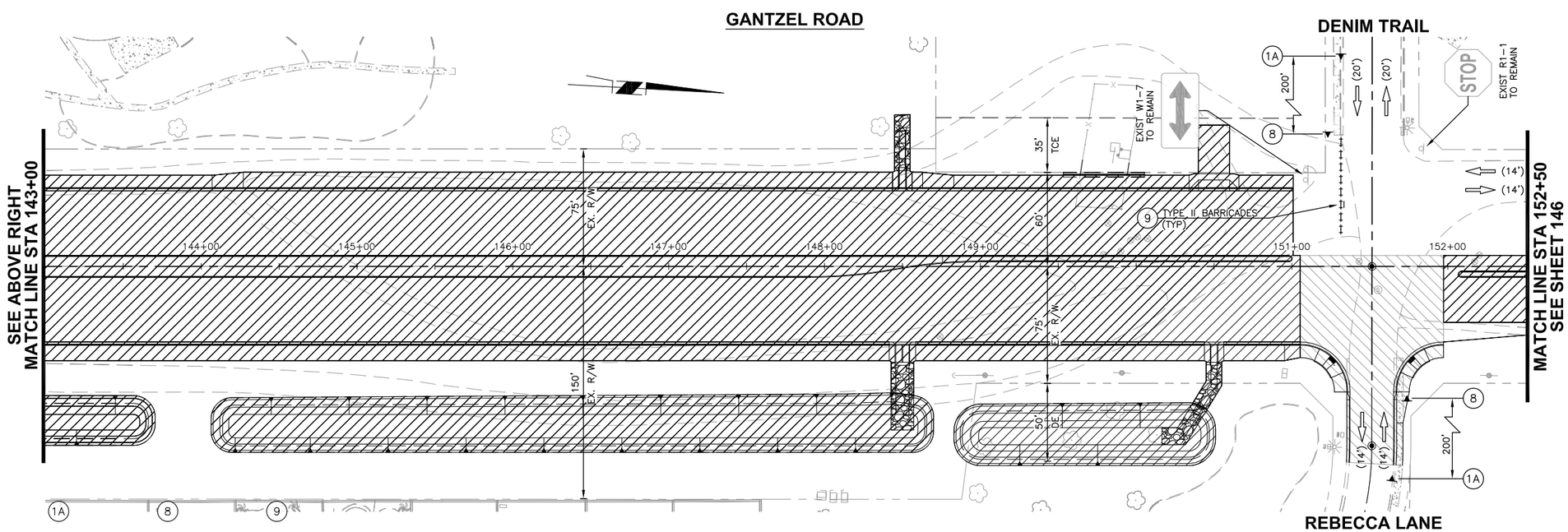

W20-1 36"X36" R1-1 396"X36" R11-2 30"x48"

Call at least two full working days before you begin excavation.
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Arizona Blue Stake, Inc.
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SCALE: 1" = 40'

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 1

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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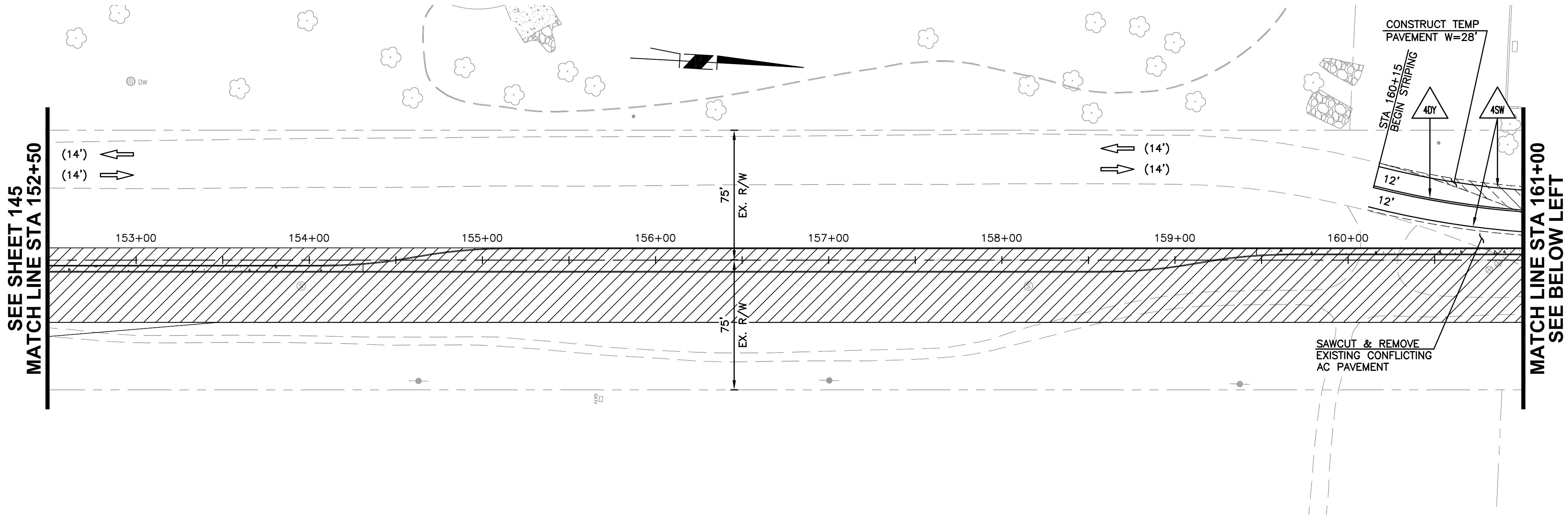
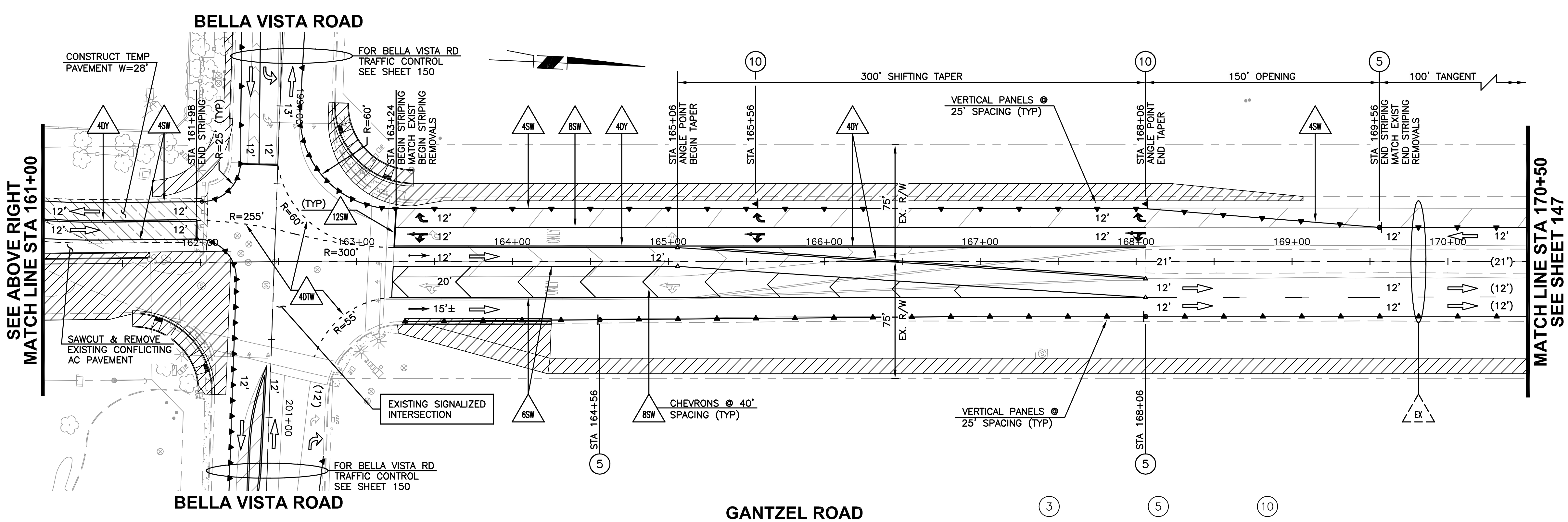


GANTZEL ROAD



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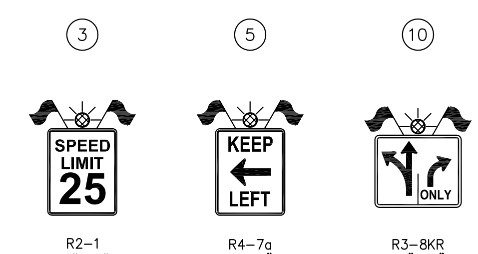

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
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TRAFFIC CONTROL
PHASE 1

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 146 OF 176

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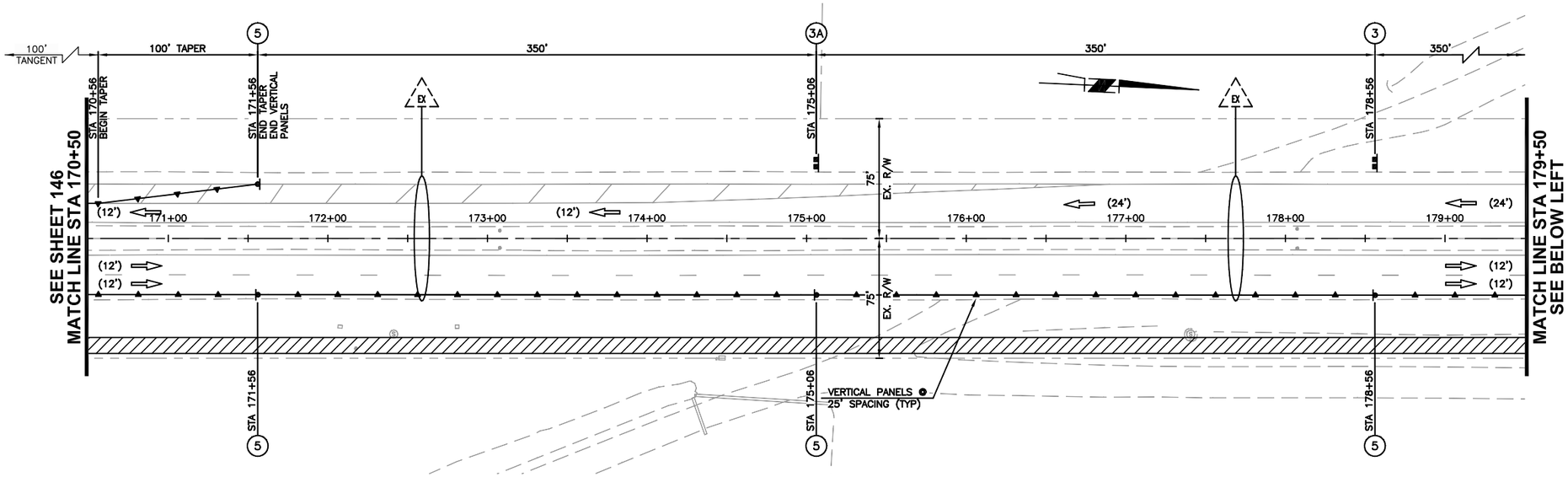

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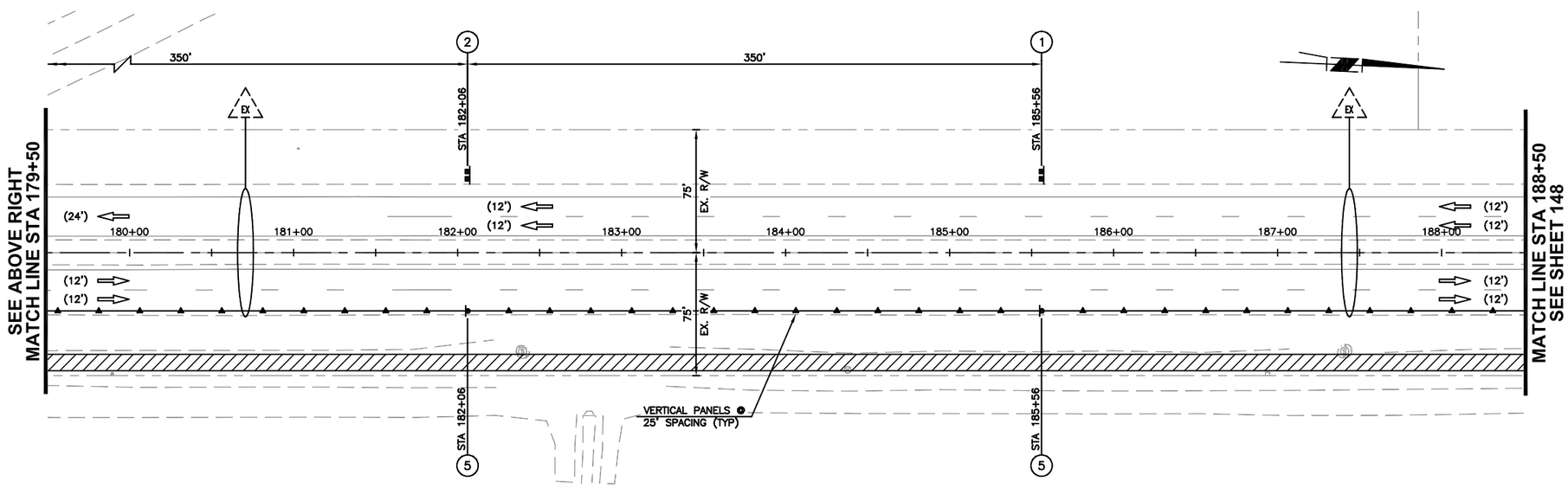

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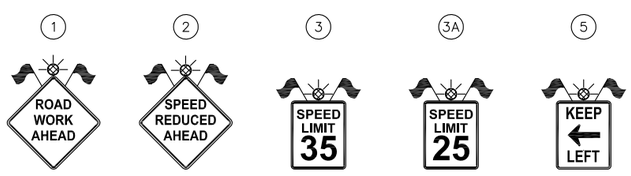

W20-1 48"X48"	W3-5a 48"X48"	R2-1 30"X36"	R2-1 30"X36"	R4-7a 18x24"

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PHASE 1

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Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

SHEET 147 OF 176

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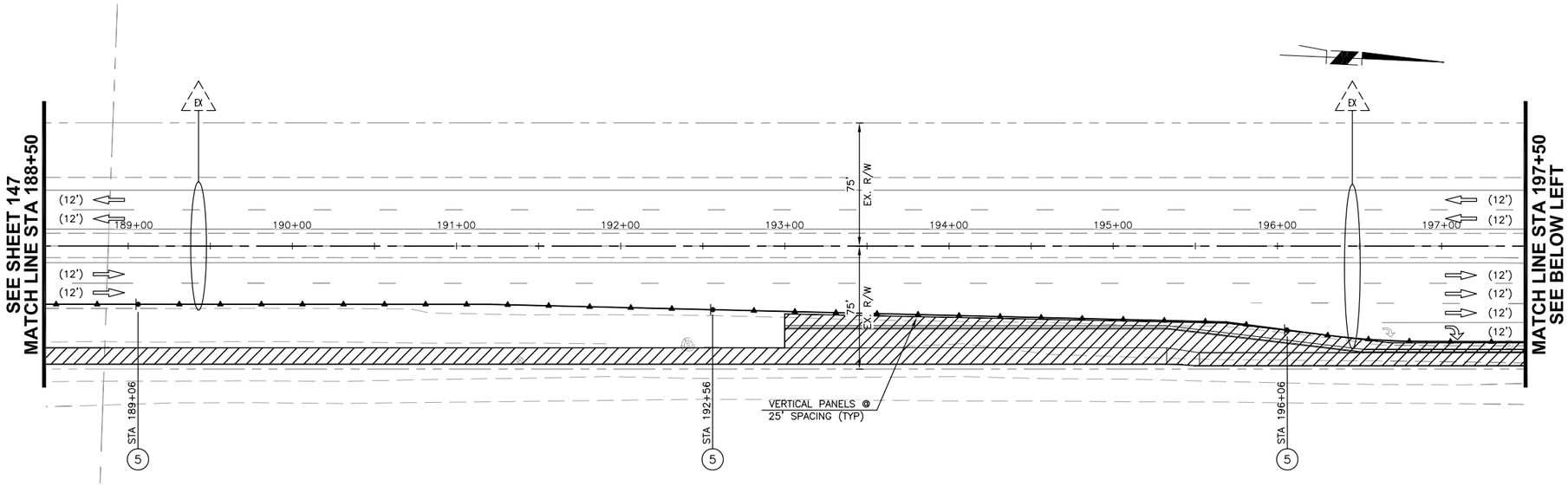

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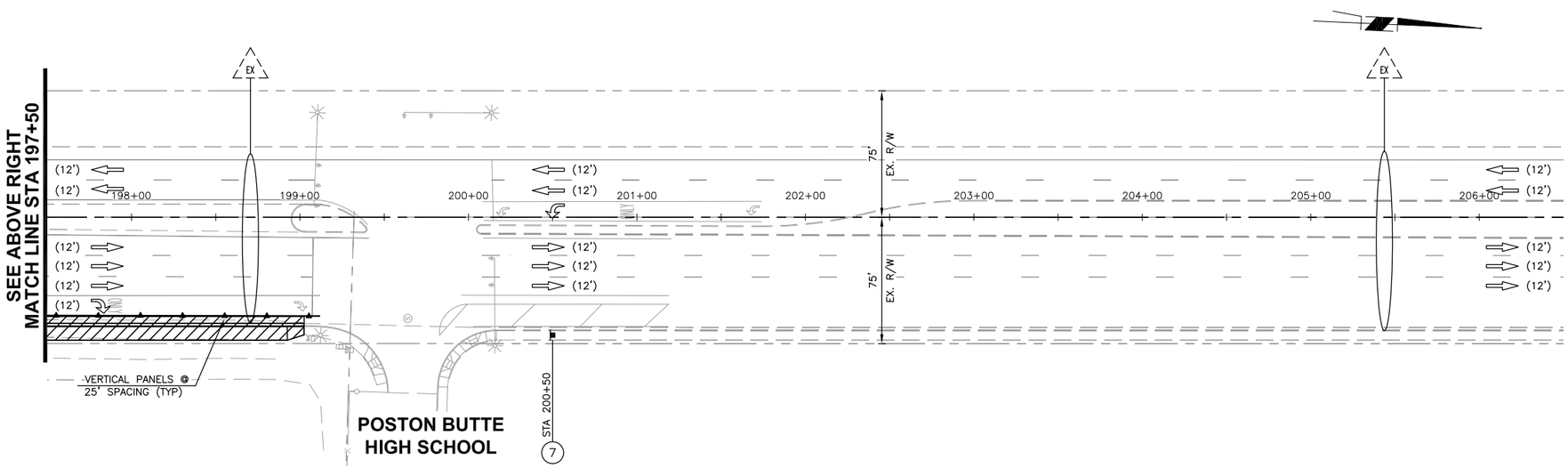

GANTZEL ROAD

5 7

R4-7a
18x24"

G20-2AZ
48"x36"

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60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 1

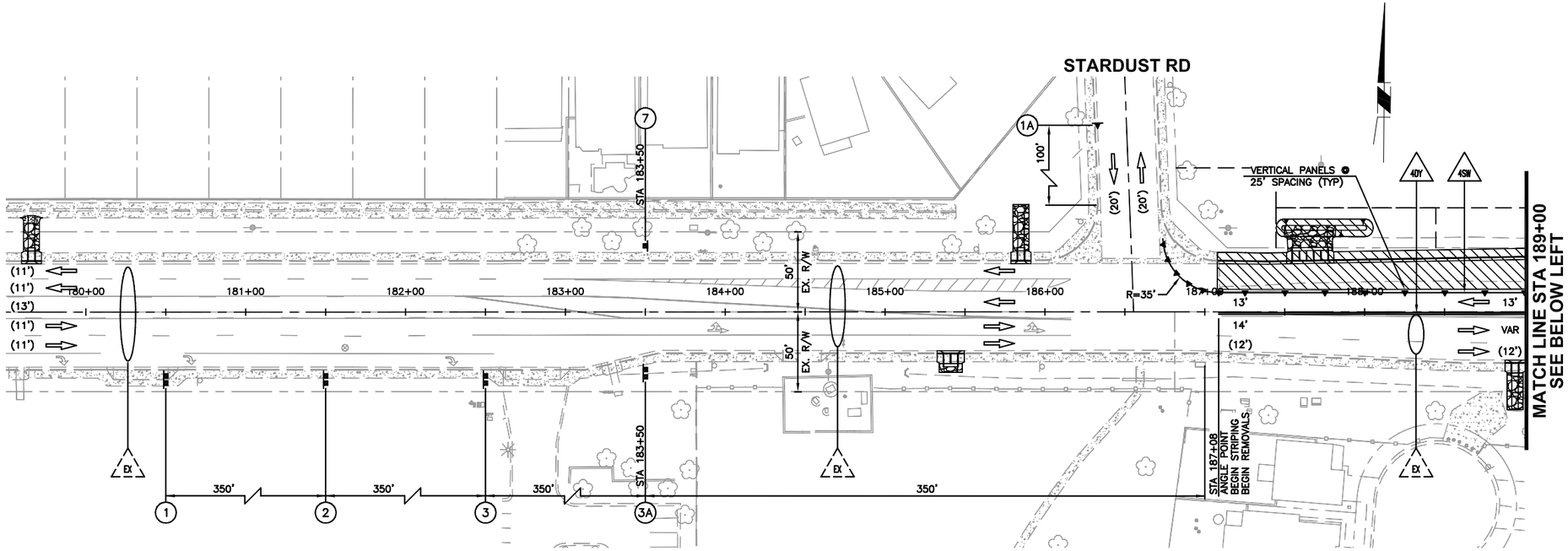
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

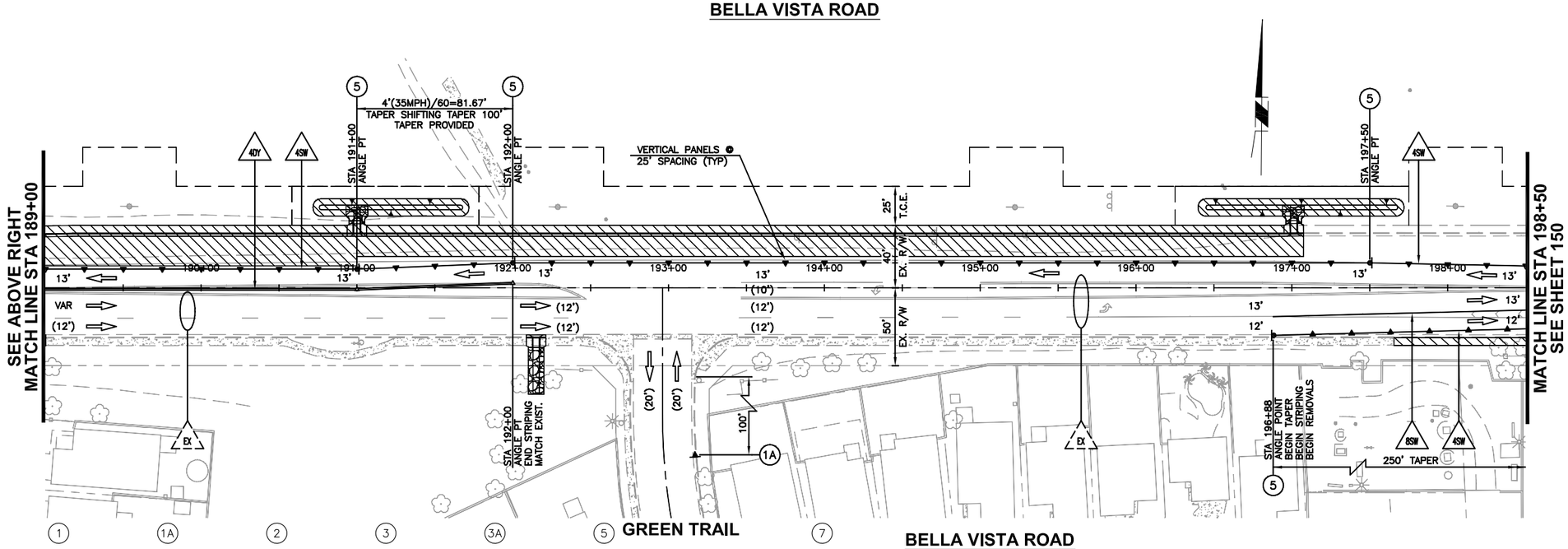
LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

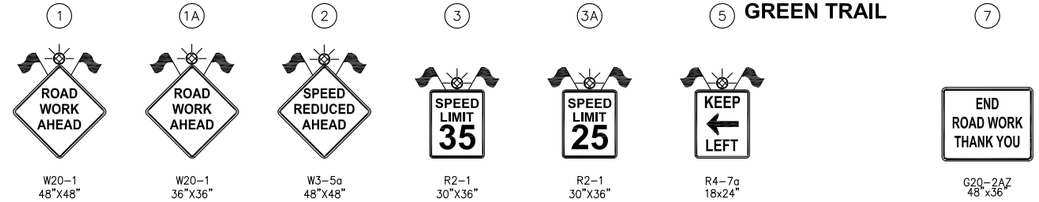
SHEET 148 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Traffic-Control\2170001_148_Phase1.dwg 8/27/2015 3:49:23 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			







Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

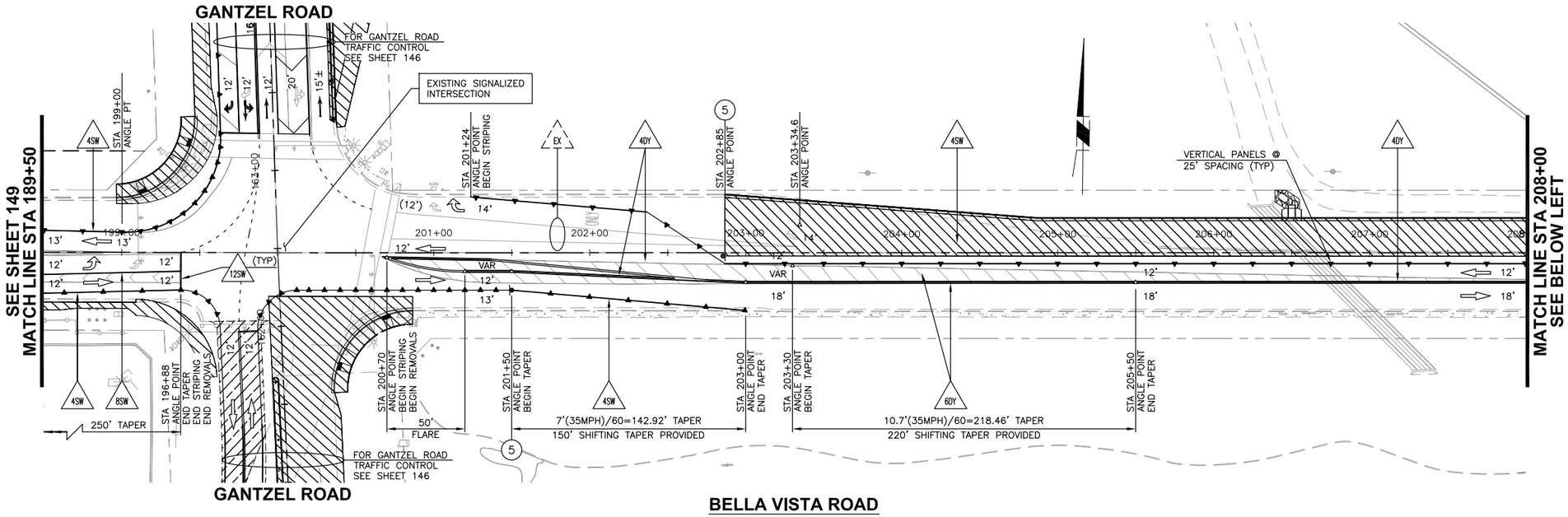
TRAFFIC CONTROL
PHASE 1

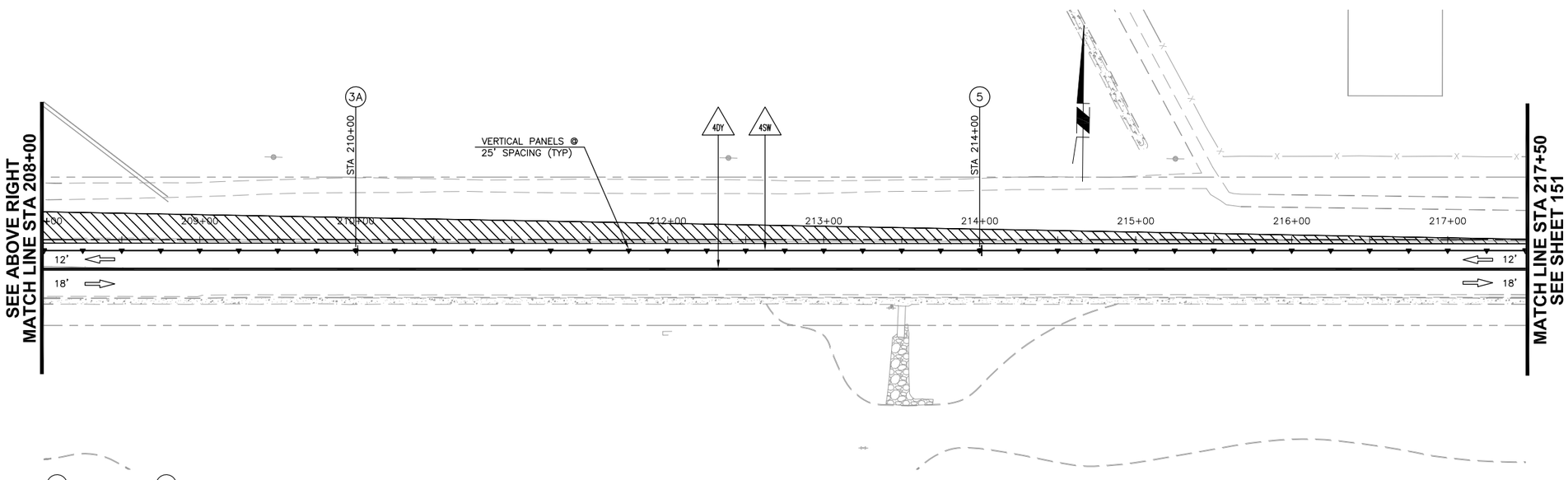
LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 49279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Traffic-Control\2170001_149_Phase1.dwg 8/27/2015 3:51:30 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





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Arizona Blue Stake, Inc.
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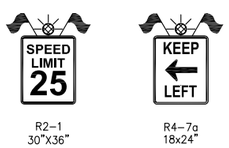
In Maricopa County: (602) 263-1100

SCALE: 1" = 40'



R2-1 30"X36" R4-7a 18x24"

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 1

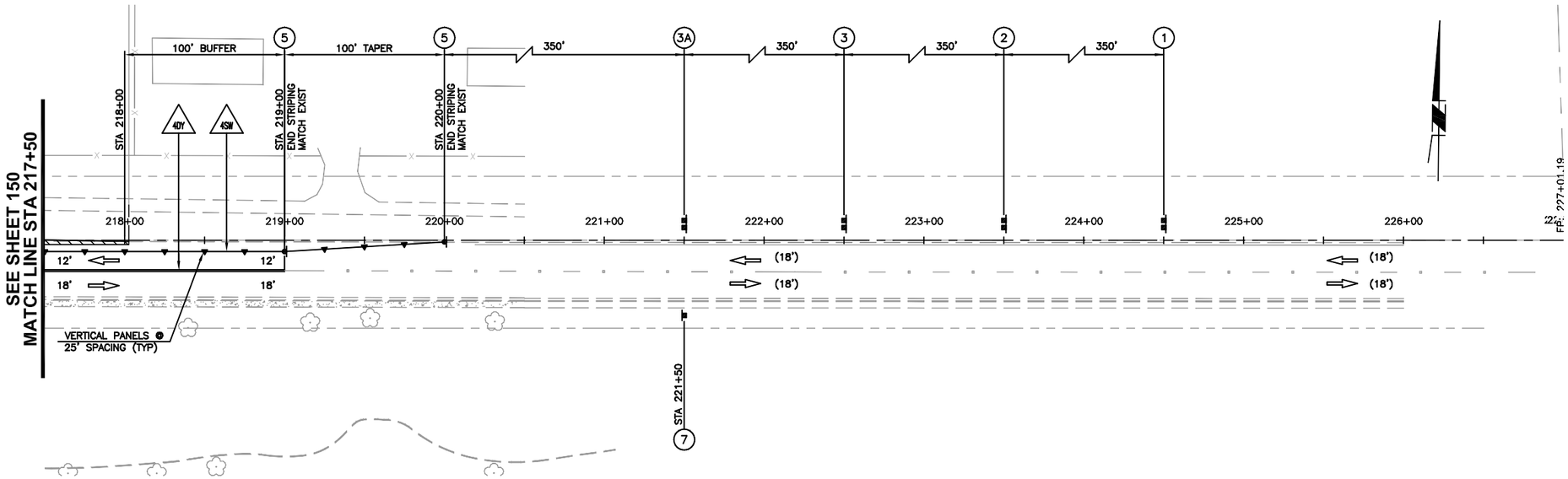
LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

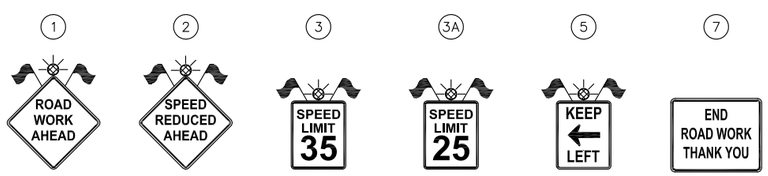
SHEET 150 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Traffic-Control\2170001_150_Phase1.dwg 8/27/2015 3:53:12 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



BELLA VISTA ROAD



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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 1

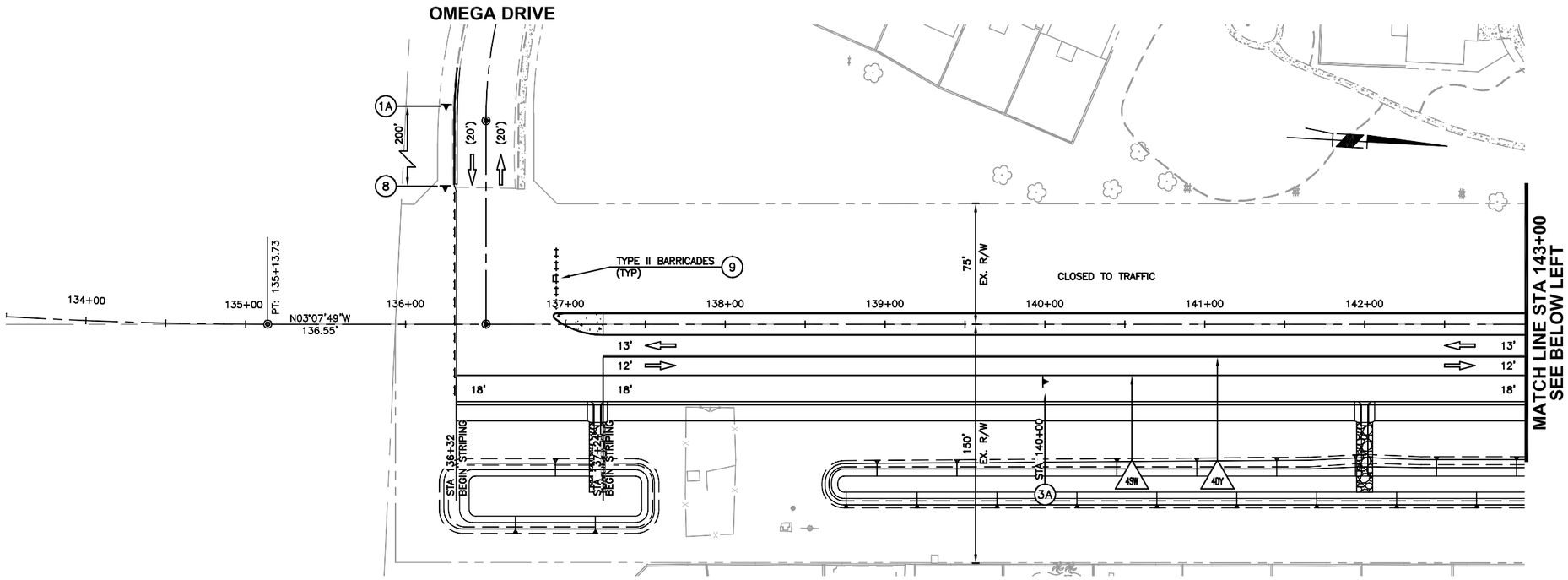
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

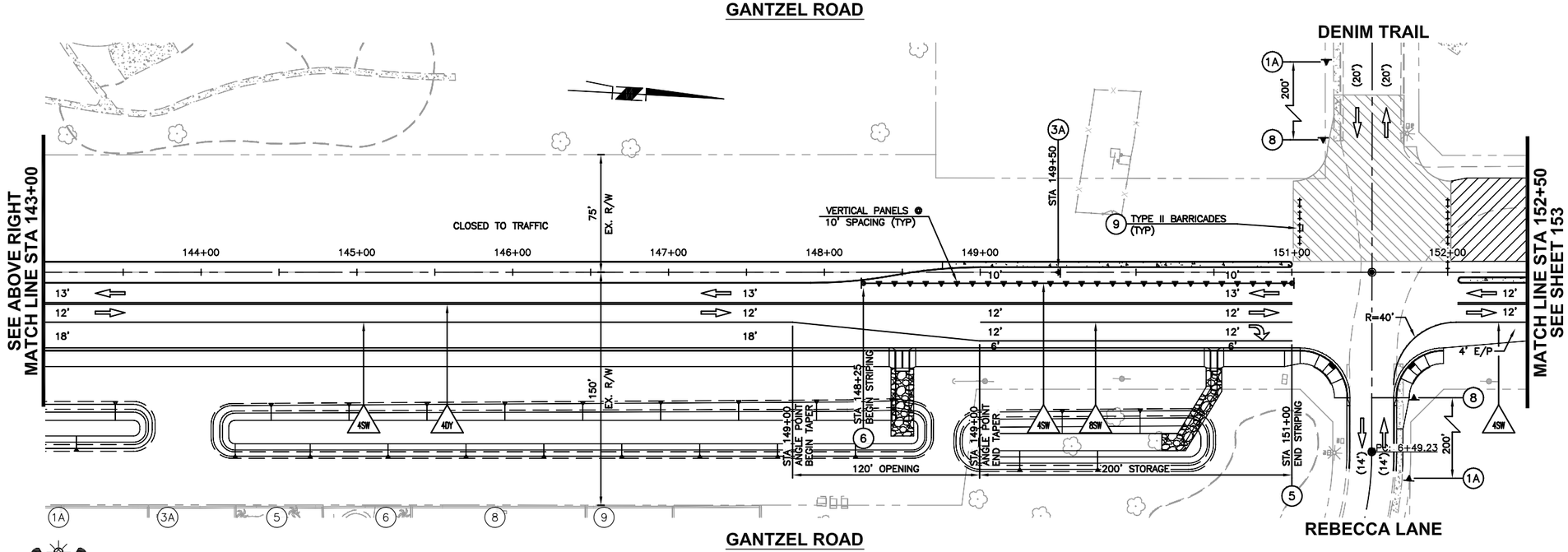
LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

SHEET 151 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE 1\Traffic-Control\2170001_151_Phase1.dwg 8/27/2015 4:14:59 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





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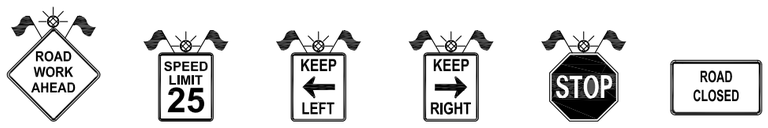
In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'



W20-1 36"X36" | R2-1 30"X36" | R4-7a 18x24" | R4-8a 18"x24" | R1-1 30"X30" | R11-2 30"x48"

NO.	REVISION	BY	APPR	DATE

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DRAWN	DR	8/15
CHECKED	CSS	8/15

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ENGINEERING BRANCH
DESIGN SECTION

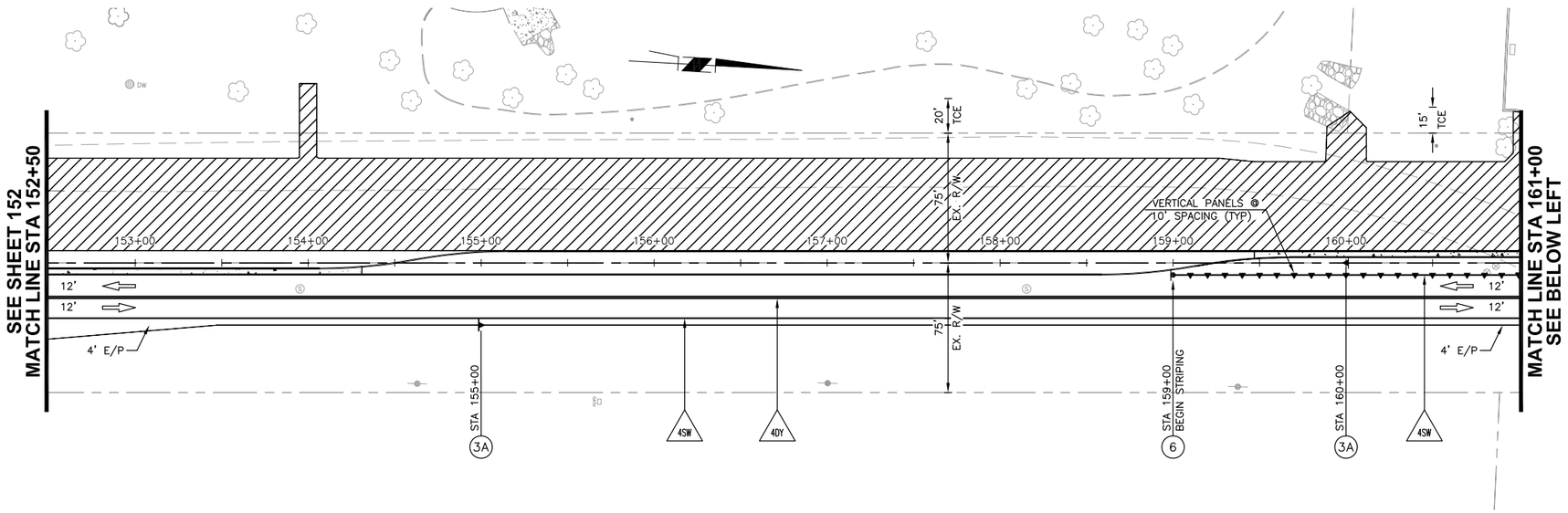
TRAFFIC CONTROL
PHASE 2

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

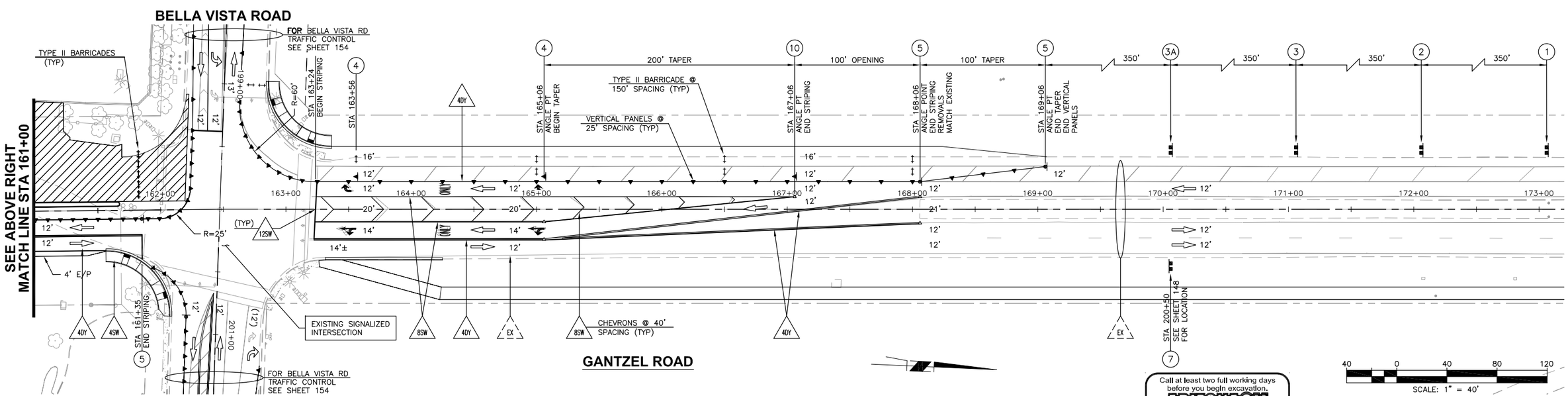
REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

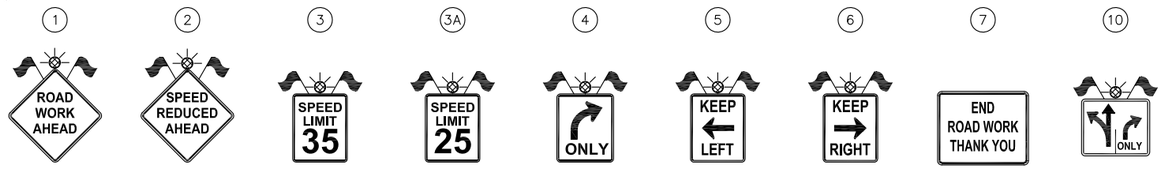
Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Traffic-Control\2170001_152_Phase2.dwg 8/27/2015 4:16:59 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



GANTZEL ROAD





1	2	3	3A	4	5	6	7	10
W20-1 48"X48"	W3-5a 48"X48"	R2-1 30"X36"	R2-1 30"X36"	R3-5R 30"X36"	R4-7a 18x24"	R4-8a 18"x24"	G20-2AZ 48"x36"	R3-8KR 36"X30"

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NO.	REVISION	BY	APPR	DATE

	NAME	DATE
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DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 2

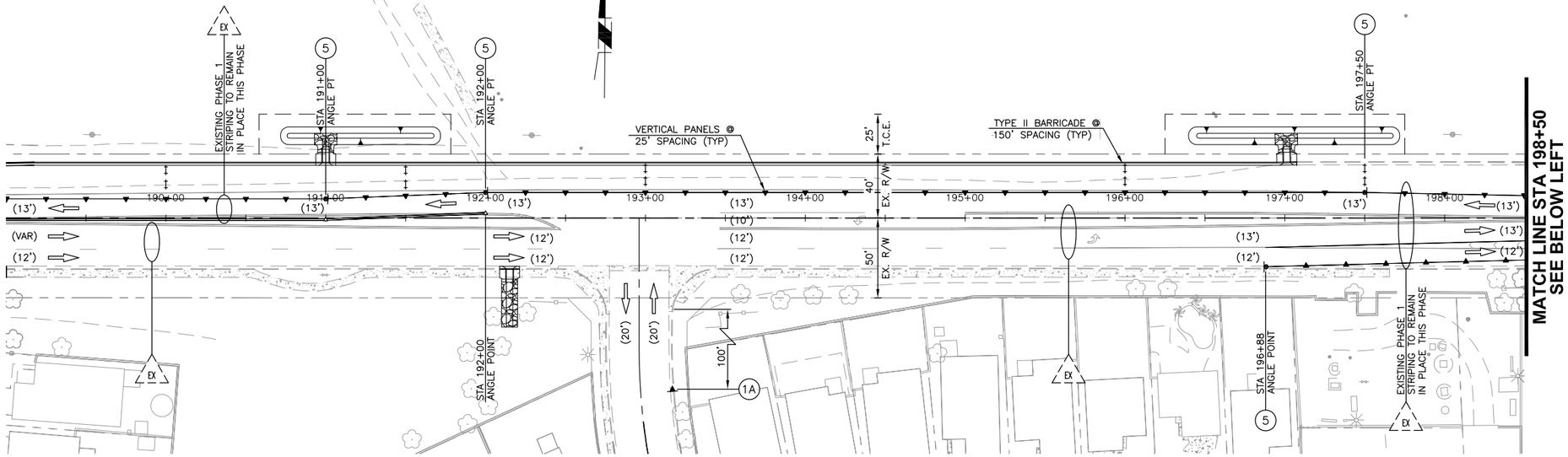
REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

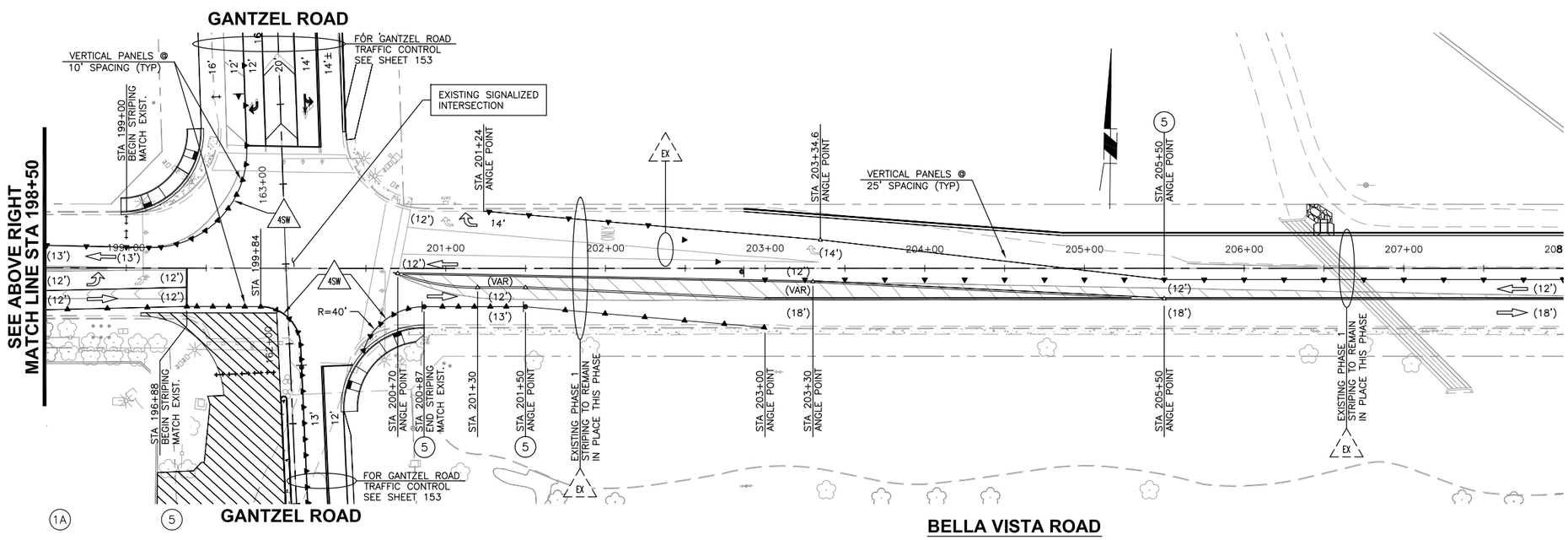
LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

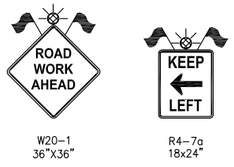
SHEET 153 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Traffic-Control\2170001_153_Phase2.dwg 8/27/2015 4:18:41 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			







W20-1
36"X36"

R4-7a
18x24"

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 2

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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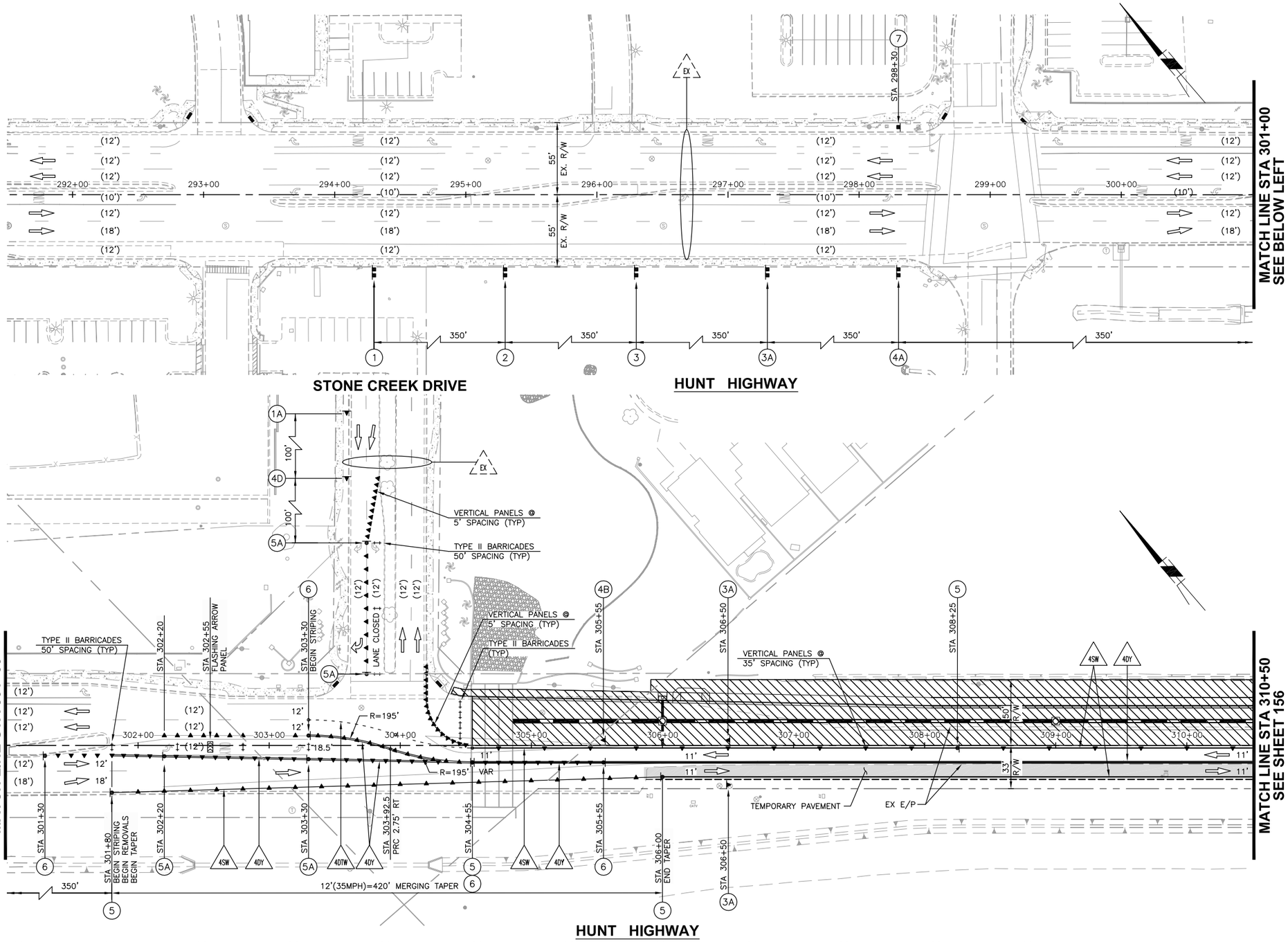
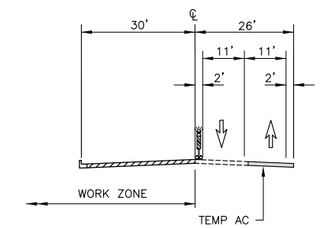
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING AND ANY REMOVALS/RELOCATIONS NECESSARY FOR THE CONSTRUCTION OF TEMPORARY ASPHALT PAVEMENT.

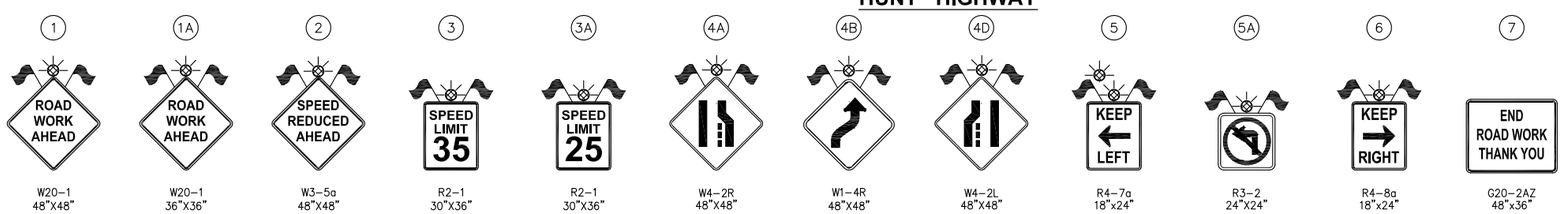




TYPICAL SECTION
HUNT HIGHWAY
STA 304+00± TO STA 324+15±
NO SCALE

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'



NO.	REVISION	BY	APPR	DATE

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DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

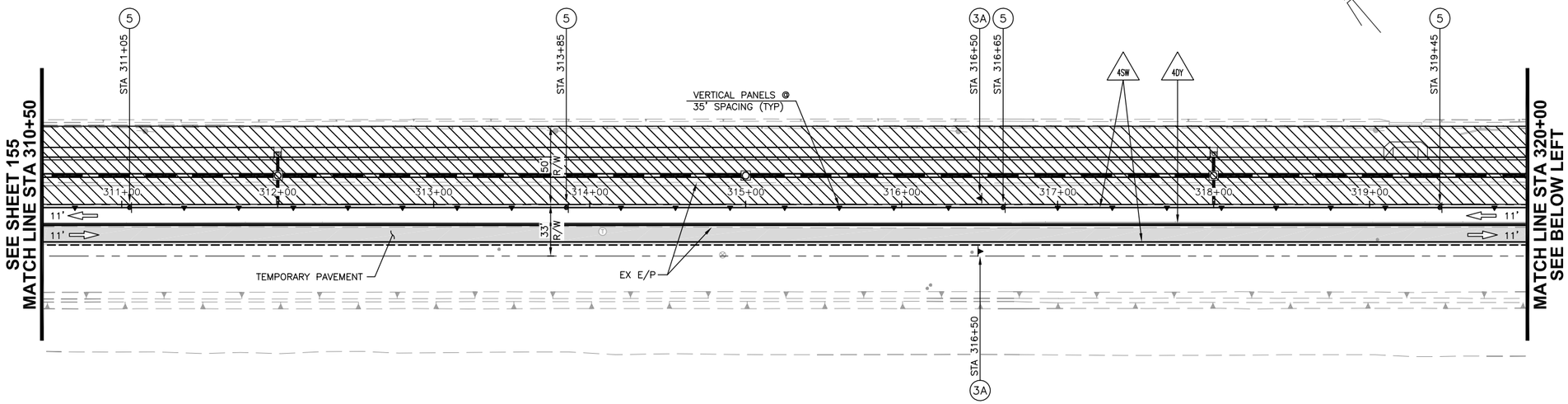
TRAFFIC CONTROL
PHASE 4

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

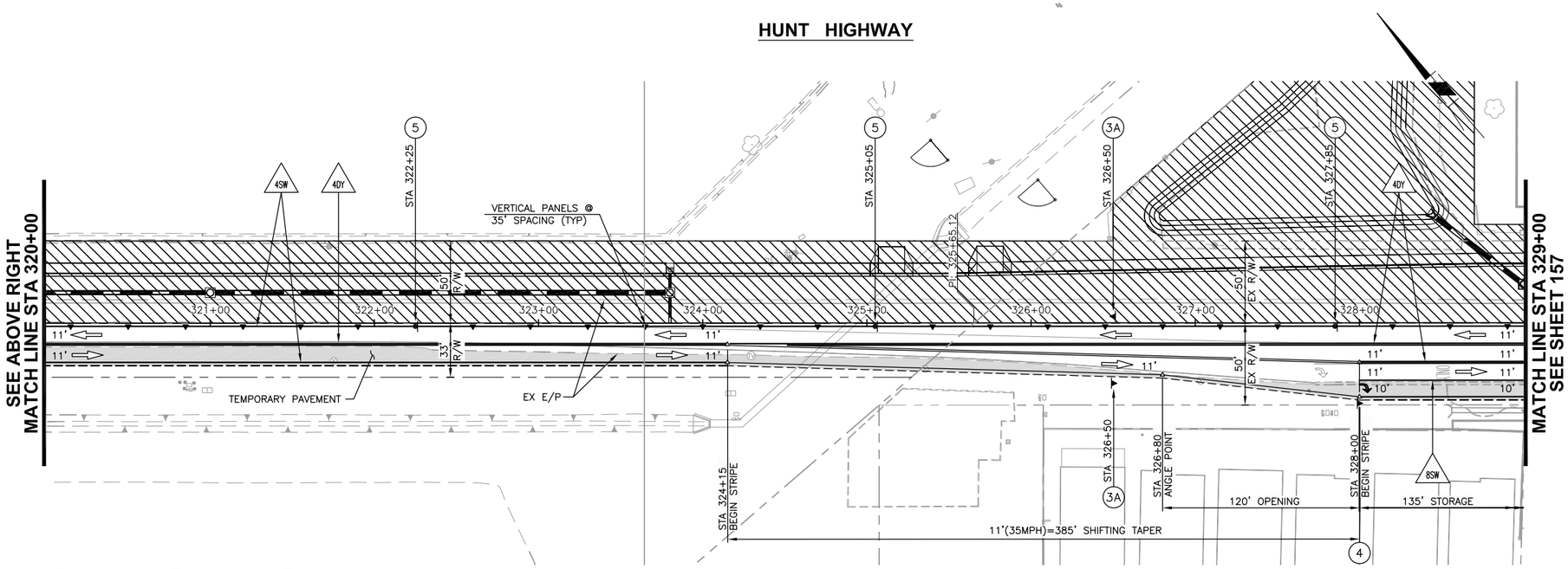
REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Traffic-Control\6621173-155-160-Phase1.dwg 8/27/2015 4:24:25 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

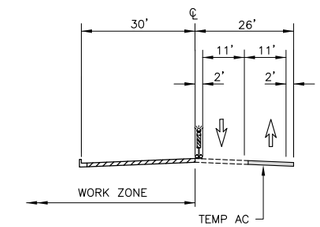
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



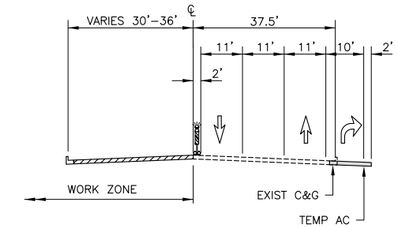
HUNT HIGHWAY



HUNT HIGHWAY



TYPICAL SECTION
HUNT HIGHWAY
STA 304+00± TO STA 324+15±
NO SCALE



TYPICAL SECTION
HUNT HIGHWAY
STA 328+00± TO STA 329+35±
NO SCALE

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ARIZONA 811
Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

3A 4 5

R2-1 30"X36" | R3-5R 30"X36" | R4-7a 18x24"

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING AND ANY REMOVALS/RELOCATIONS NECESSARY FOR THE CONSTRUCTION OF TEMPORARY ASPHALT PAVEMENT.

NO.	REVISION	BY	APPR	DATE

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DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 4

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Traffic-Control\662173-155-160-Phase1.dwg 8/27/2015 4:24:32 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

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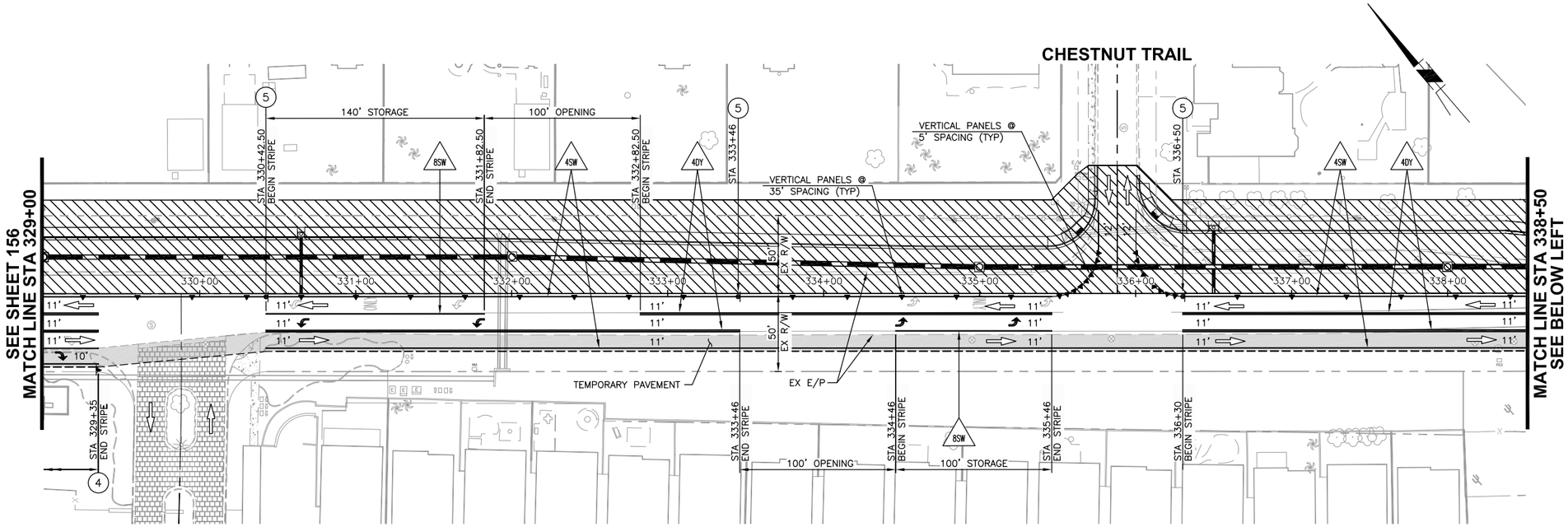
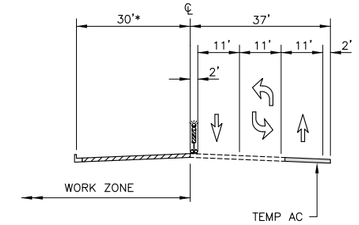
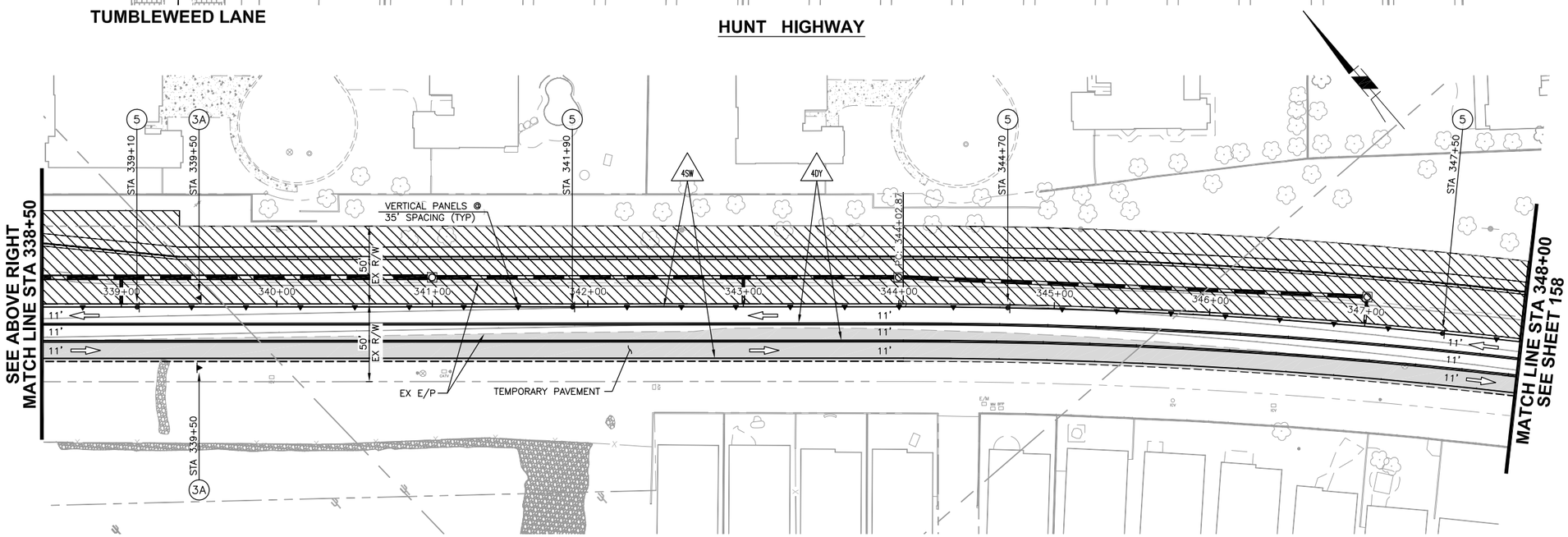
9	AZ	62952173 & 662170001			





TYPICAL SECTION
HUNT HIGHWAY
STA 330+42± TO STA 359+21±
* 40' AT RIGHT TURN LANES
NO SCALE



R2-1 30"X36" | R3-5R 30"X36" | R4-7a 18x24"

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40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

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DRAWN	DR	8/15
CHECKED	CSS	8/15

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ENGINEERING BRANCH
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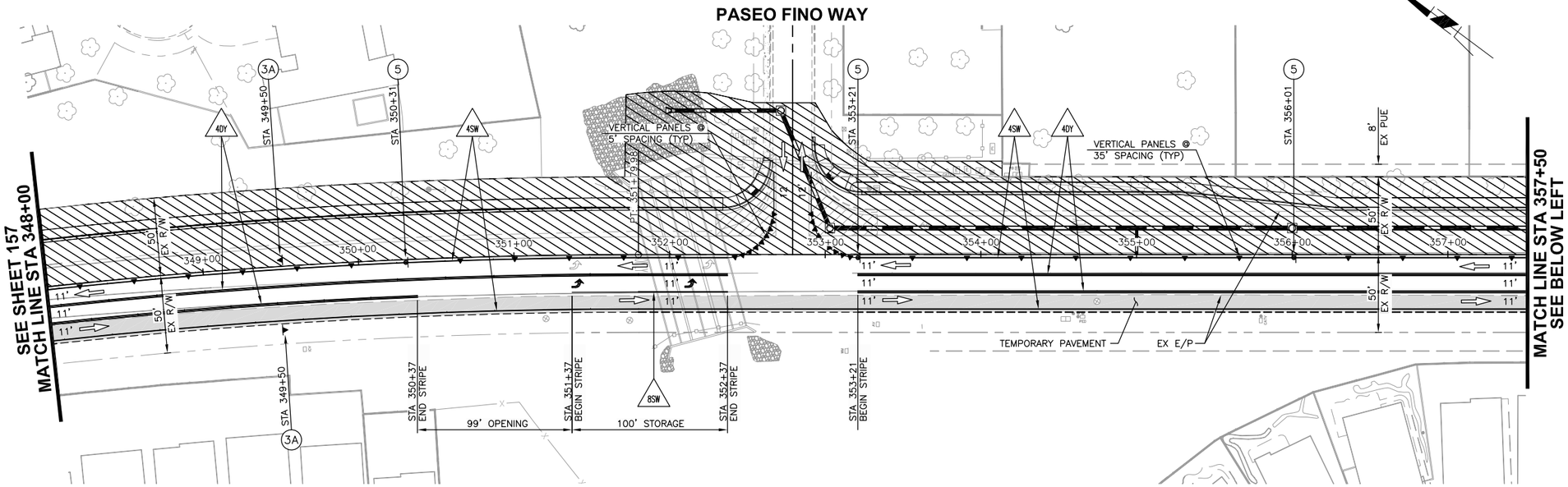
TRAFFIC CONTROL
PHASE 4

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

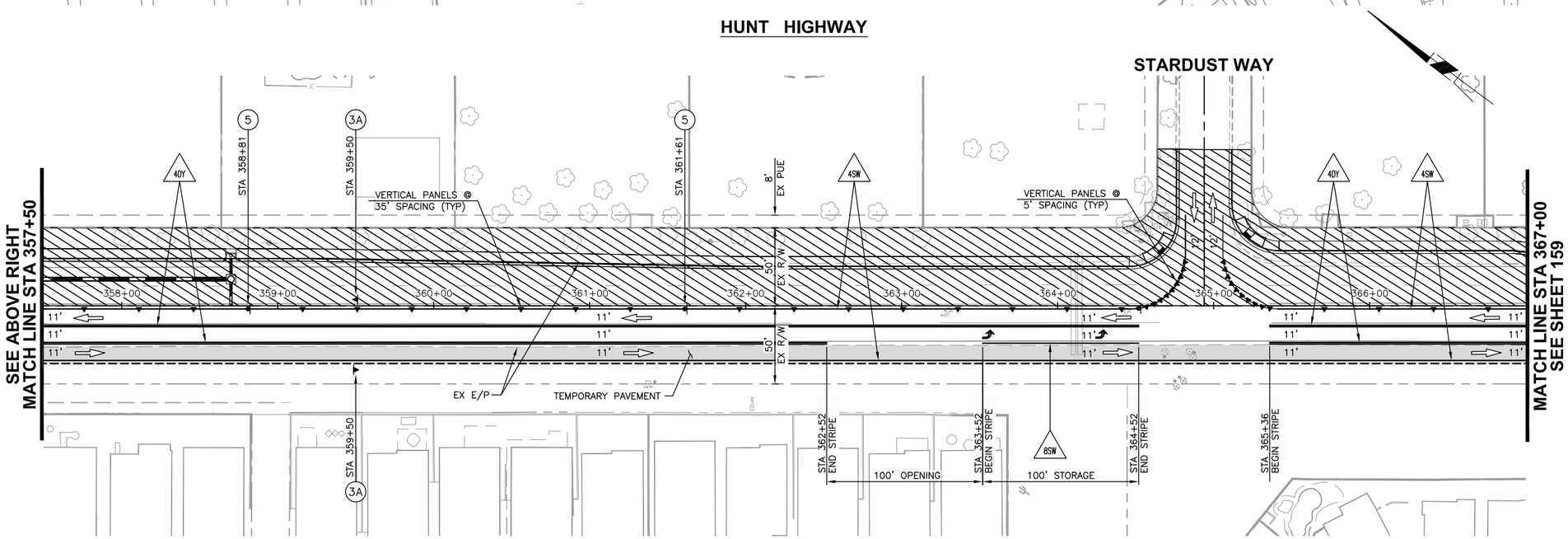
REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/11

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Traffic-Control\6621173-155-160-Phase1.dwg 8/27/2015 4:24:37 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

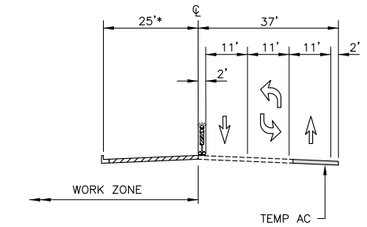
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



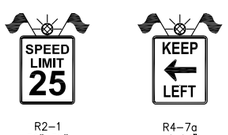
HUNT HIGHWAY



HUNT HIGHWAY



TYPICAL SECTION
HUNT HIGHWAY
STA 359+21± TO STA 381+00±
* VARIES 25'-30' FROM STA 359+21 TO STA 361+96 & 35' AT RIGHT TURN LANES
NO SCALE



R2-1
30"X36"

R4-7a
18x24"

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 4

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 3/30/17

SHEET 158 OF 176

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING AND ANY REMOVALS/RELOCATIONS NECESSARY FOR THE CONSTRUCTION OF TEMPORARY ASPHALT PAVEMENT.

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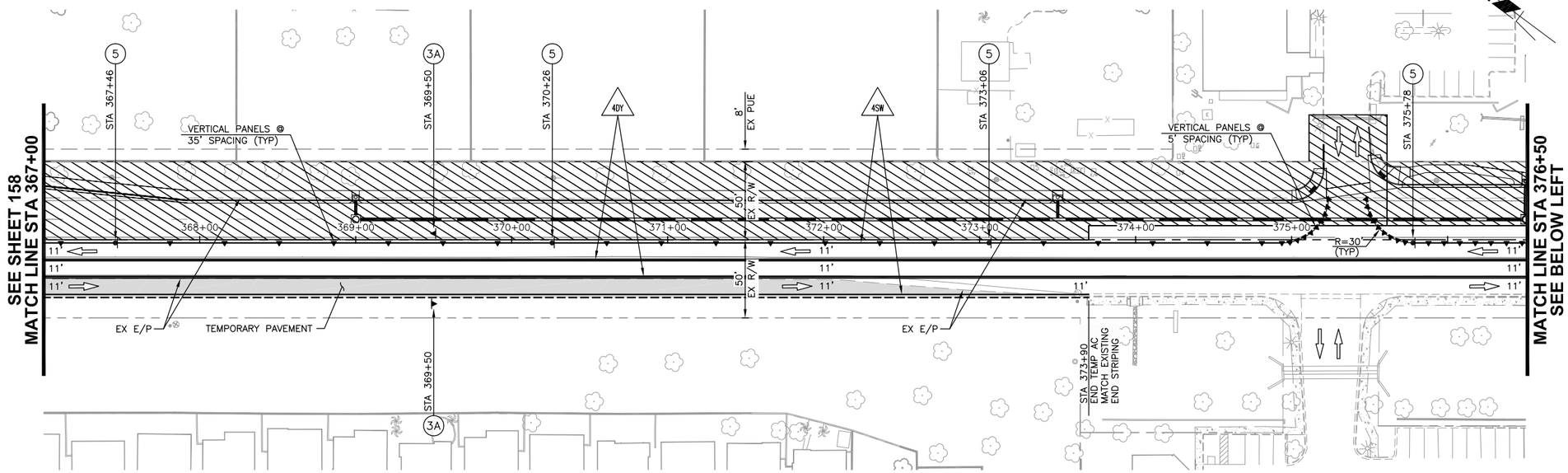
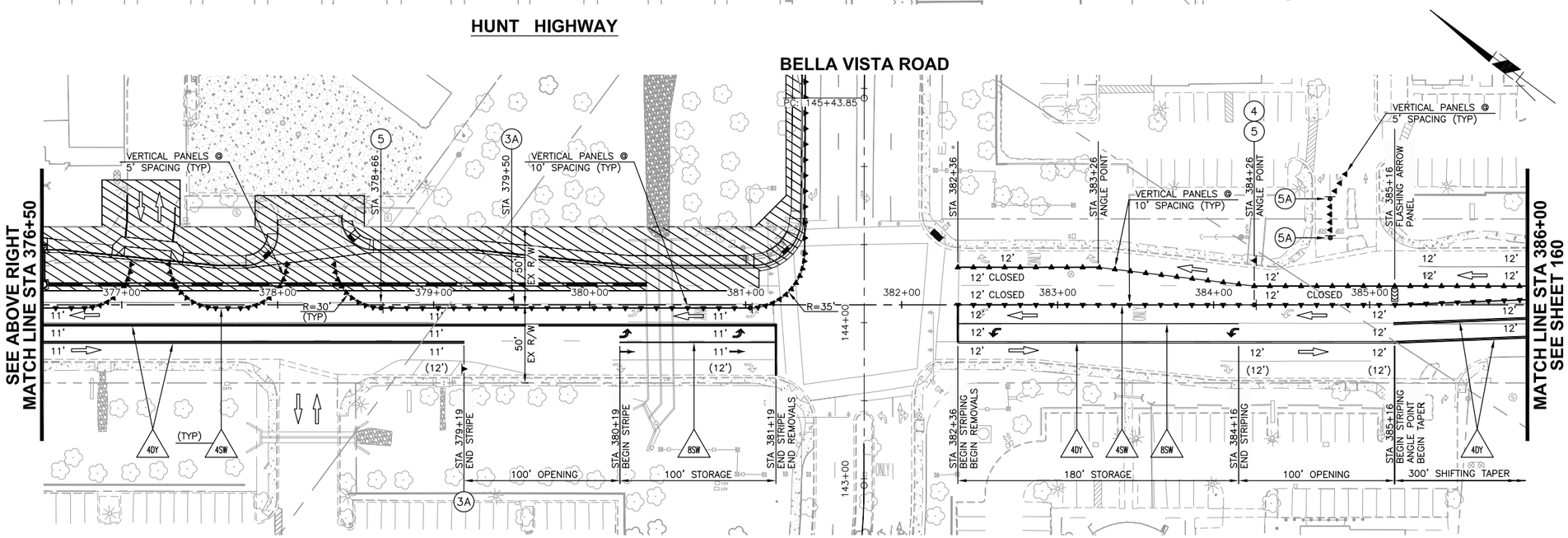
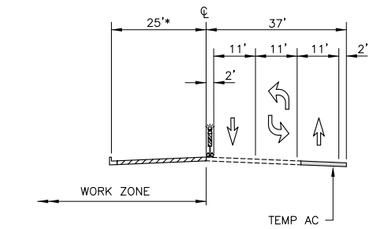
9	AZ	62952173 & 662170001			



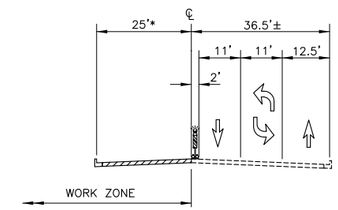
HUNT HIGHWAY



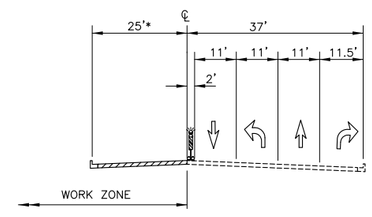
HUNT HIGHWAY



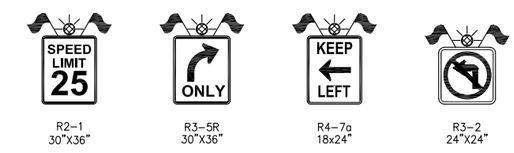
TYPICAL SECTION
HUNT HIGHWAY
STA 359+21± TO STA 372+00±
* VARIES 25'–30' FROM STA 359+21 TO STA 361+96
& 35' AT RIGHT TURN LANES
NO SCALE



TYPICAL SECTION
HUNT HIGHWAY
STA 373+70± TO STA 379+00±
* 35' AT RIGHT TURN LANES
NO SCALE



TYPICAL SECTION
HUNT HIGHWAY
STA 379+00± TO STA 381+20±
* 35' AT RIGHT TURN LANES
NO SCALE



R2–1 30"X36" | R3–5R 30"X36" | R4–7a 18x24" | R3–2 24"X24"

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING AND ANY REMOVALS/RELOCATIONS NECESSARY FOR THE CONSTRUCTION OF TEMPORARY ASPHALT PAVEMENT.

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 4

LOCATION: HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

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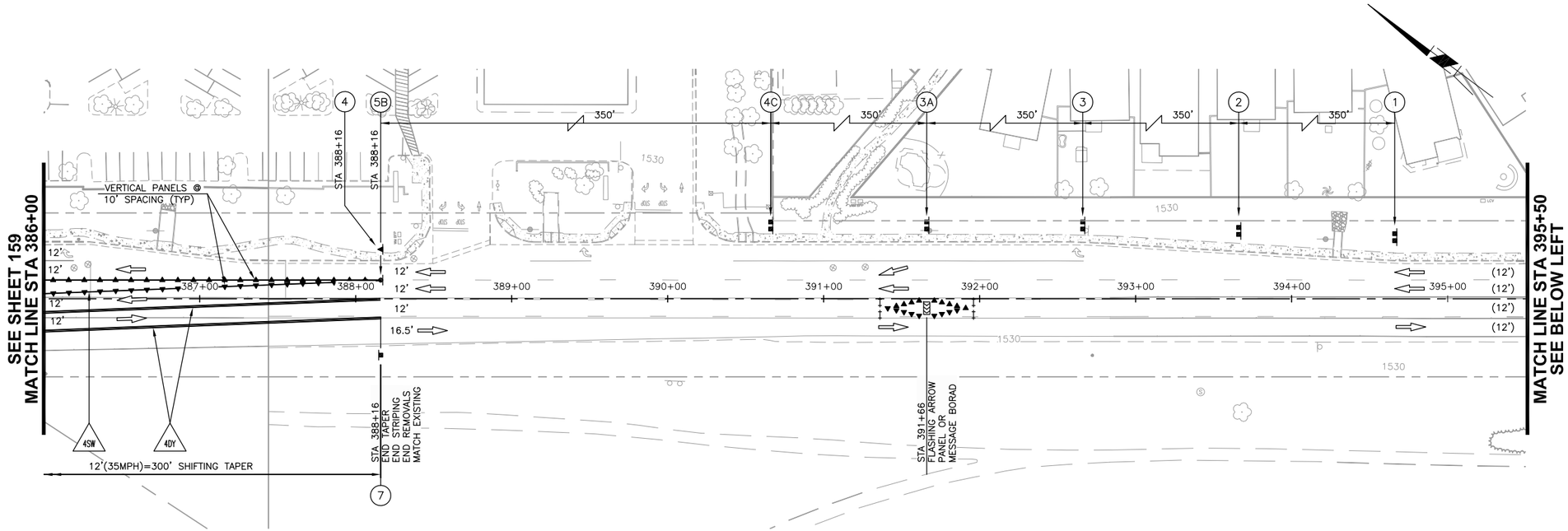
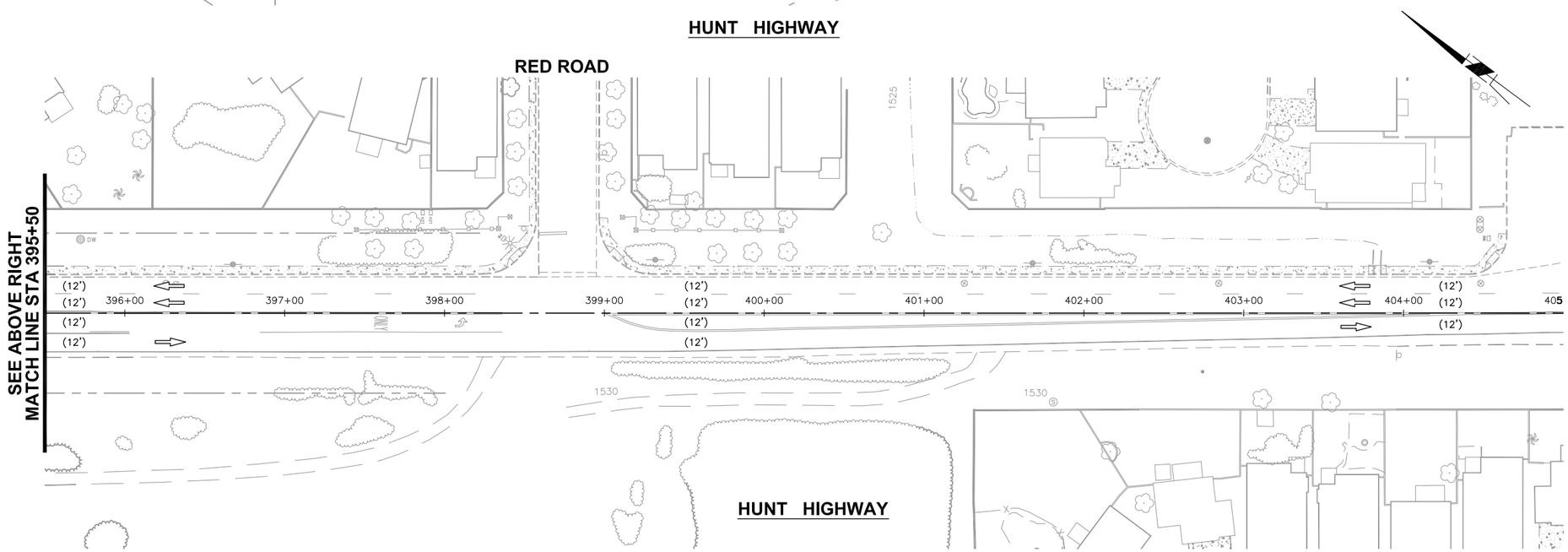
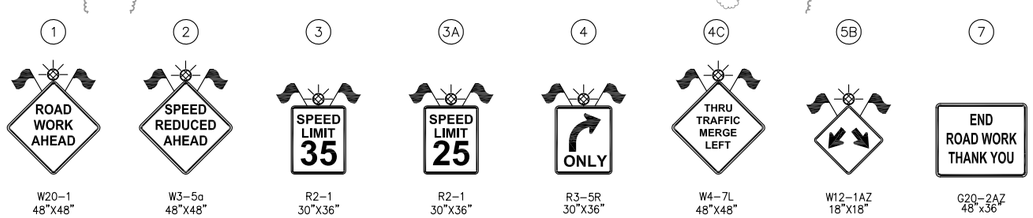
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			







W20-1	W3-5a	R2-1	R2-1	R3-5R	W4-7L	W12-1AZ	G2Q-2AZ
48"X48"	48"X48"	30"X36"	30"X36"	30"X36"	48"X48"	18"X18"	48"x36"

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40 0 40 80 120
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NO.	REVISION	BY	APPR	DATE

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CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 4

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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Carlos Sanchez-Soria TY Lin Half Scale.ctb 8/27/2015 4:24:52 PM

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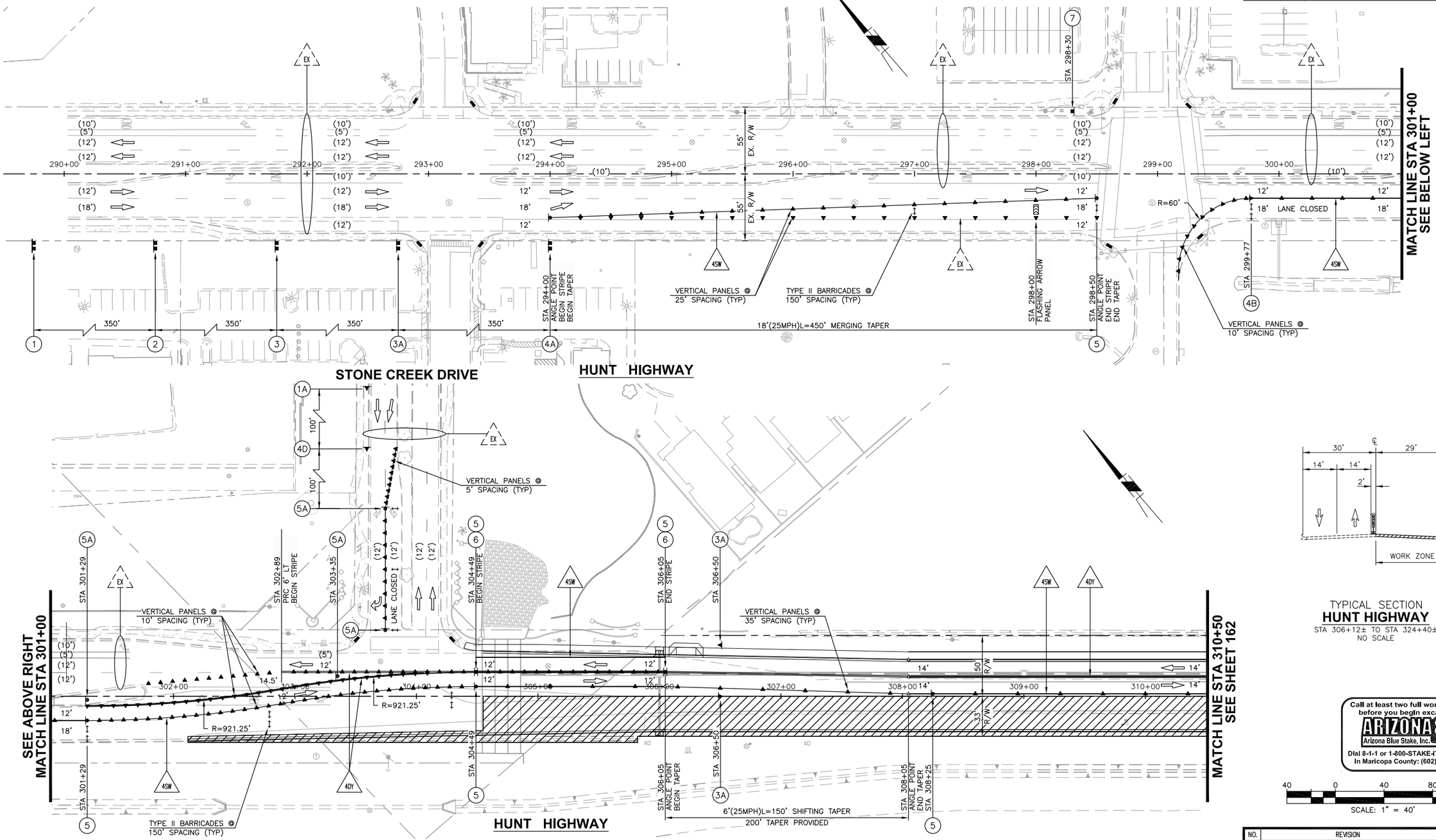
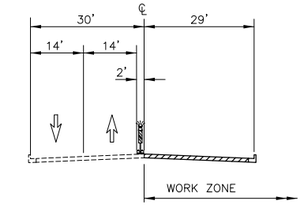
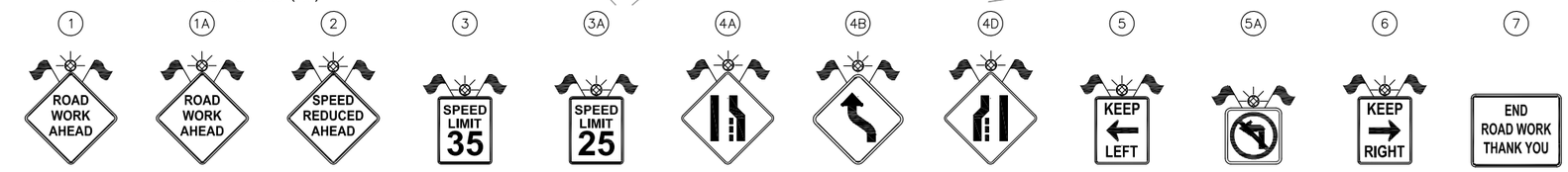
9	AZ	62952173 & 662170001			





TYPICAL SECTION
HUNT HIGHWAY
STA 306+12± TO STA 324+40±
NO SCALE



1	1A	2	3	3A	4A	4B	4D	5	5A	6	7
W20-1 48"X48"	W20-1 36"X36"	W3-5a 48"X48"	R2-1 30"X36"	R2-1 30"X36"	W4-2R 48"X48"	W1-4L 48"X48"	W4-2L 36"X36"	R4-7a 18x24"	R3-2 24"X24"	R4-8a 18"x24"	G20-2AZ 48"x36"

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40 0 40 80 120
SCALE: 1" = 40'

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 5

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA U.S.A. Expires 9/30/17

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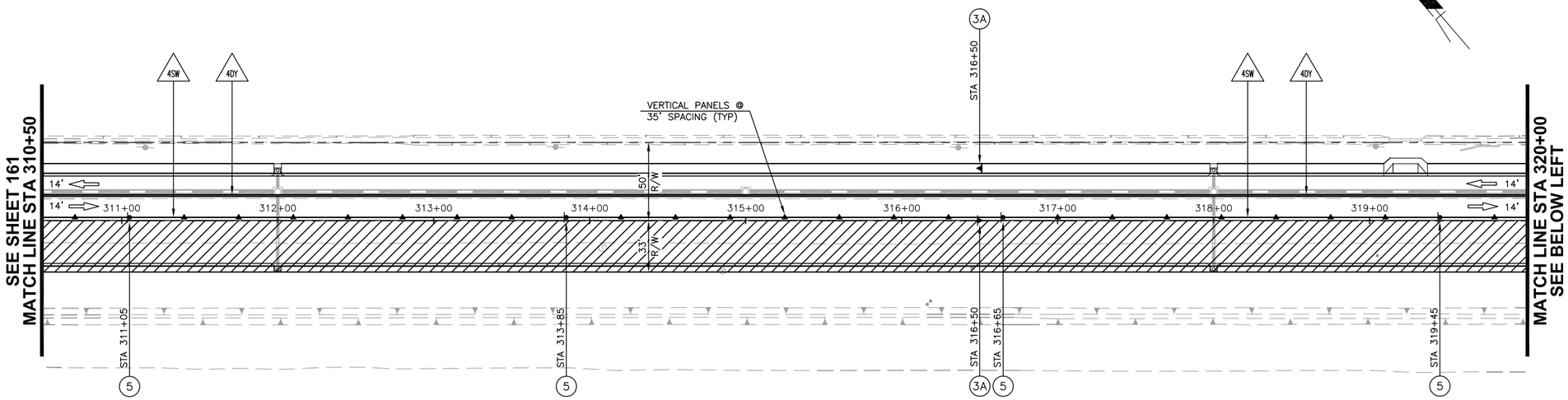
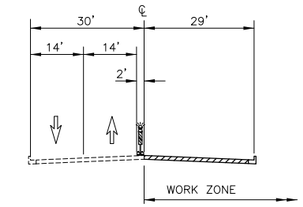
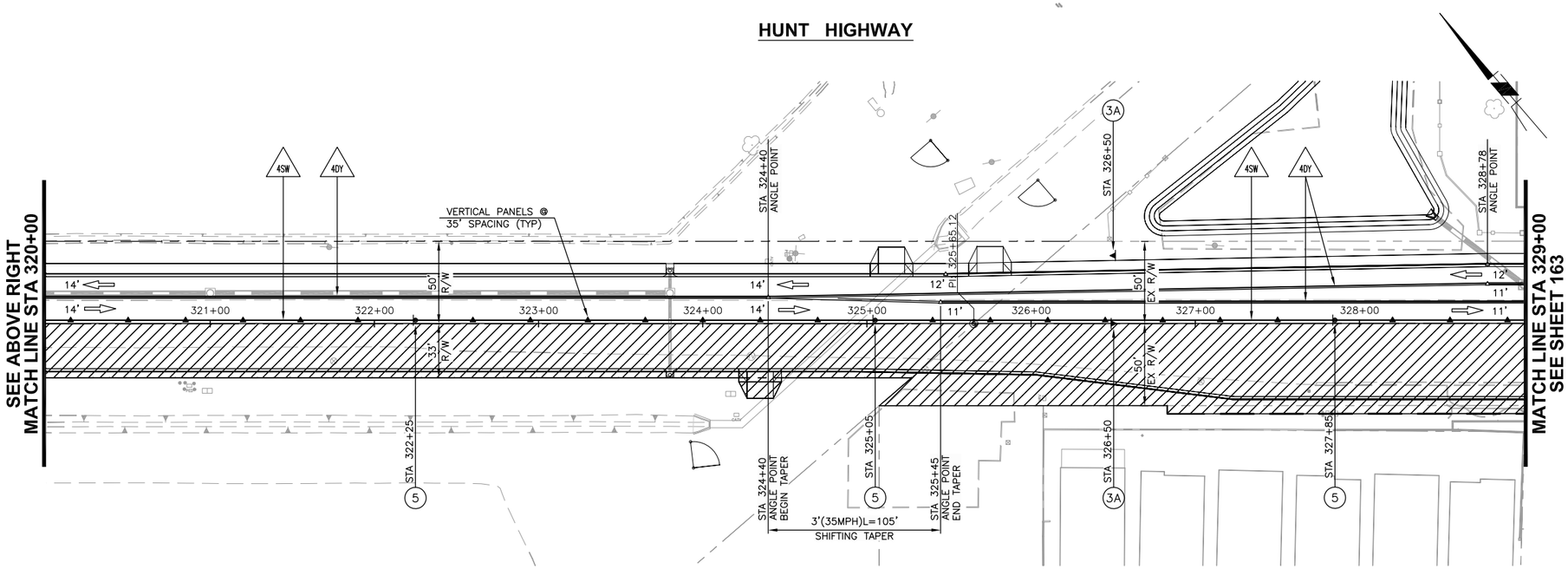
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



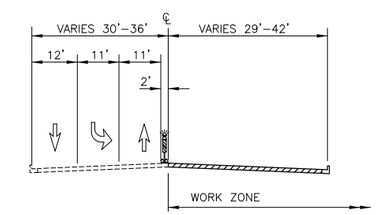
HUNT HIGHWAY



TYPICAL SECTION
HUNT HIGHWAY
STA 306+12± TO STA 324+40±
NO SCALE



HUNT HIGHWAY



TYPICAL SECTION
HUNT HIGHWAY
STA 324+40± TO STA 334+60±
NO SCALE

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In Maricopa County: (602) 263-1100

40 0 40 80 120
SCALE: 1" = 40'

3A 5

R2-1
30"X36"

R4-7a
18x24"

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 5

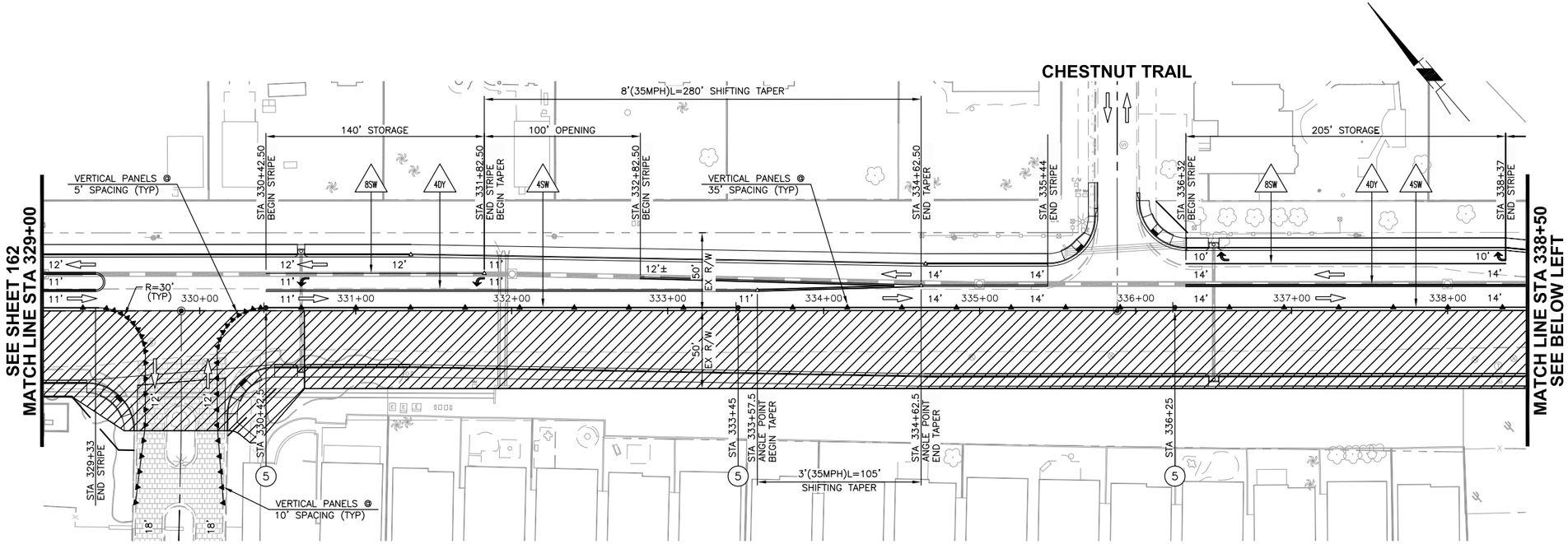
REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA U.S.A. Expires 3/30/17

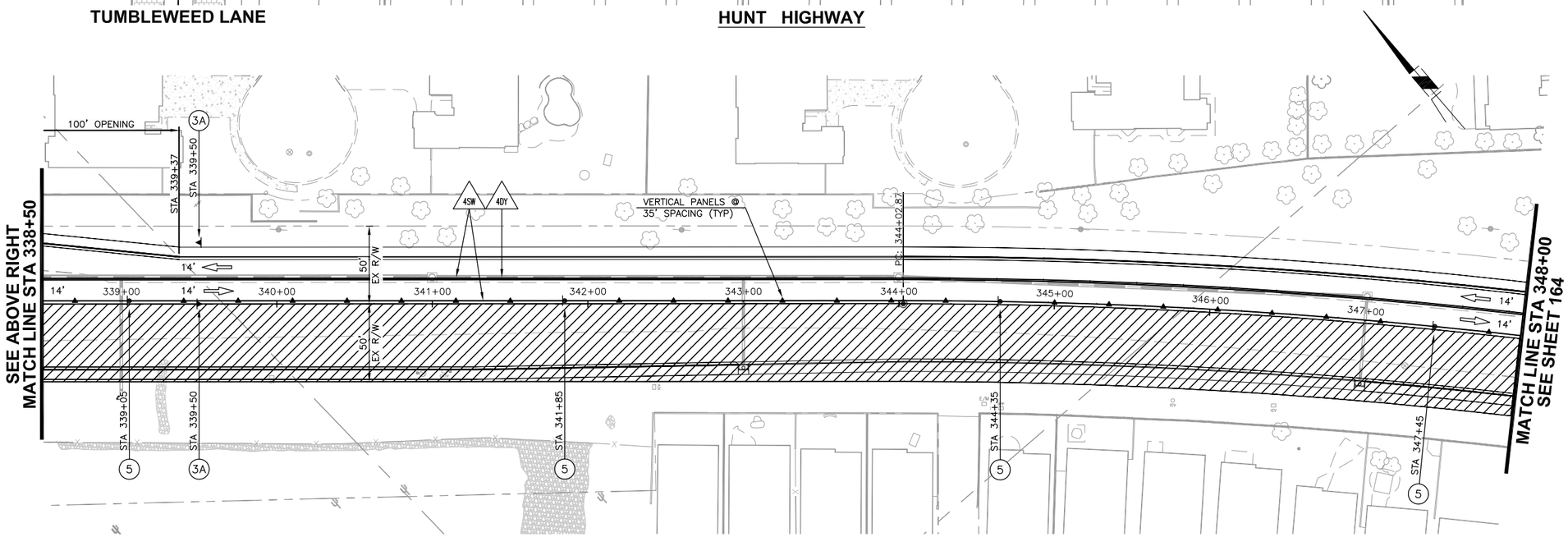
LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

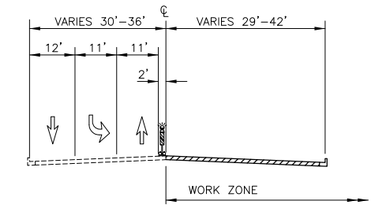
SHEET 162 OF 176

Q:\221807.00 Hunt Highway Phase 3\Cad\Delv Files\Traffic-Control\62173-161-166-Phase2.dwg 8/27/2015 4:29:21 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

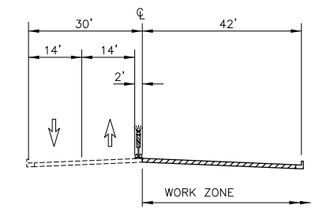
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



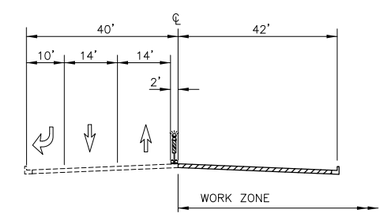




TYPICAL SECTION
HUNT HIGHWAY
STA 324+40± TO STA 334+60±
NO SCALE



TYPICAL SECTION
HUNT HIGHWAY
STA 334+60± TO STA 336+32±
STA 339+38± TO STA 344+03±
NO SCALE



TYPICAL SECTION
HUNT HIGHWAY
STA 336+32± TO STA 339+38±
NO SCALE

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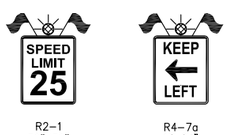
40 0 40 80 120
SCALE: 1" = 40'



R2-1 30"X36" R4-7a 18x24"

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

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Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC CONTROL
PHASE 5

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 3/30/17

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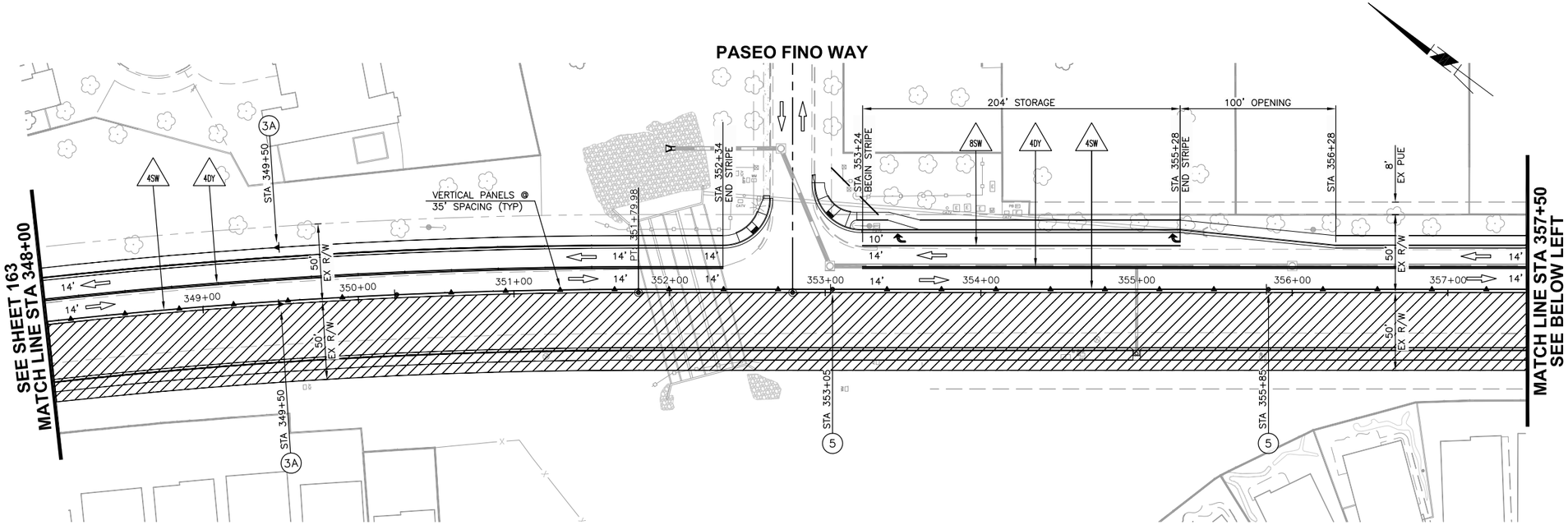
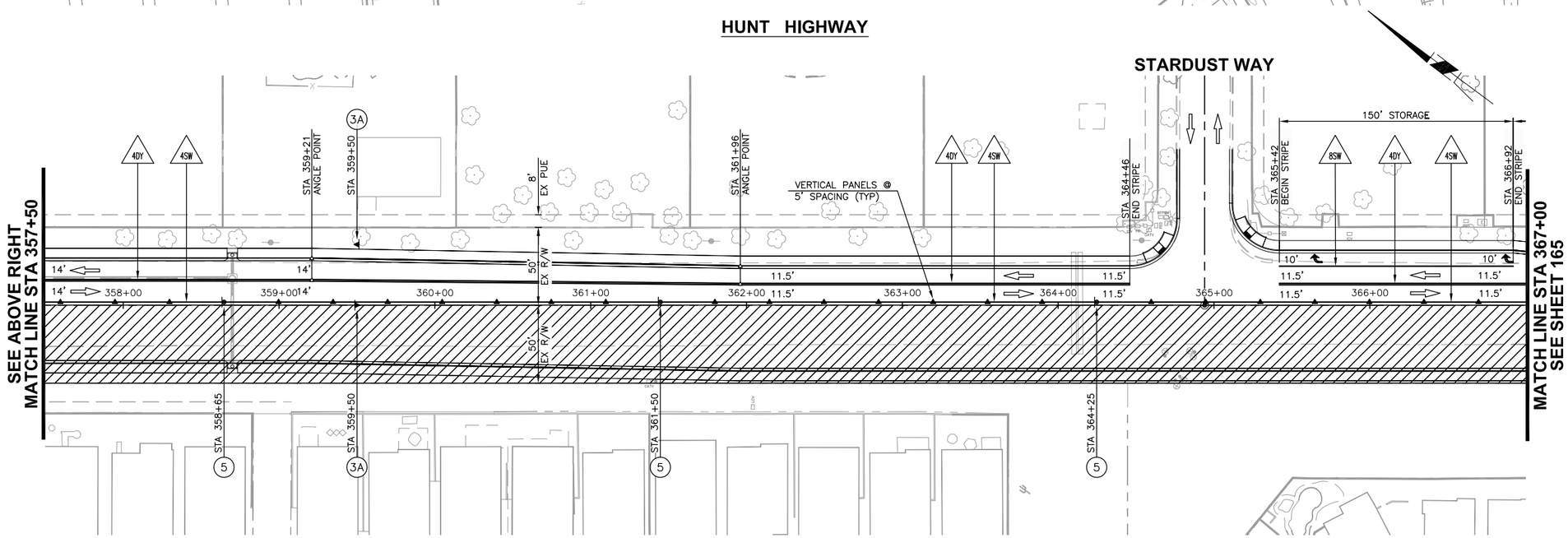
8/27/2015 4:29:26 PM Carlos Sanchez-Soria TY Lin Half Scale.ctb

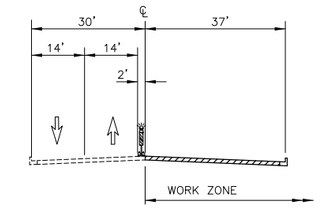
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			



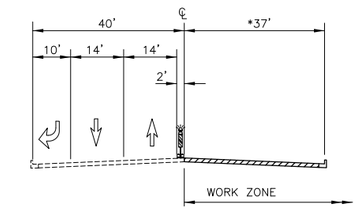
HUNT HIGHWAY



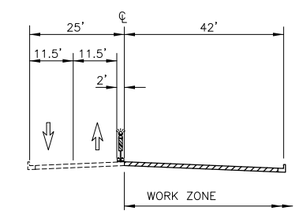
HUNT HIGHWAY



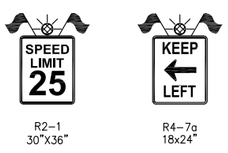
TYPICAL SECTION
HUNT HIGHWAY
STA 344+03± TO STA 353+24±
STA 356+28± TO STA 361+96±
NO SCALE



TYPICAL SECTION
HUNT HIGHWAY
STA 353+24± TO STA 356+28±
NO SCALE



TYPICAL SECTION
HUNT HIGHWAY
STA 361+96± TO STA 365+42±
NO SCALE



R2-1
30"X36"

R4-7a
18x24"

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40 0 40 80 120
SCALE: 1" = 40'

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DRAWN	DR	8/15
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DESIGN SECTION

TRAFFIC CONTROL
PHASE 5

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
48279
CARLOS SANCHEZ SORIA
Date Signed 8/27/15
ARIZONA, U.S.A.
Expires 9/30/17

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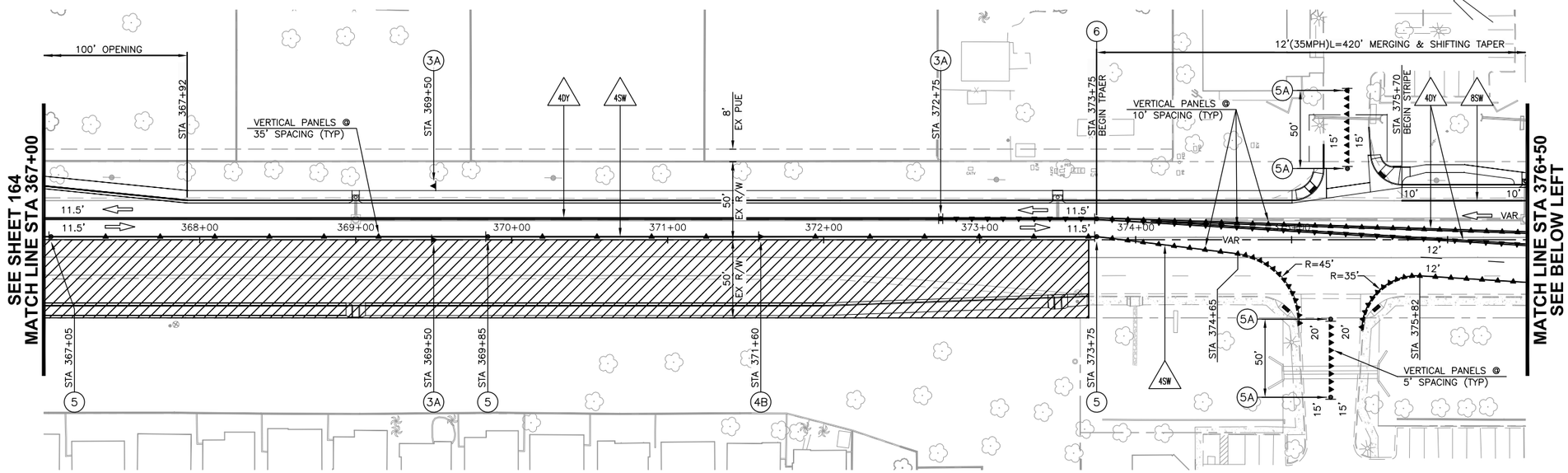
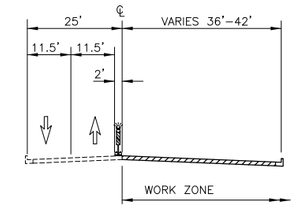
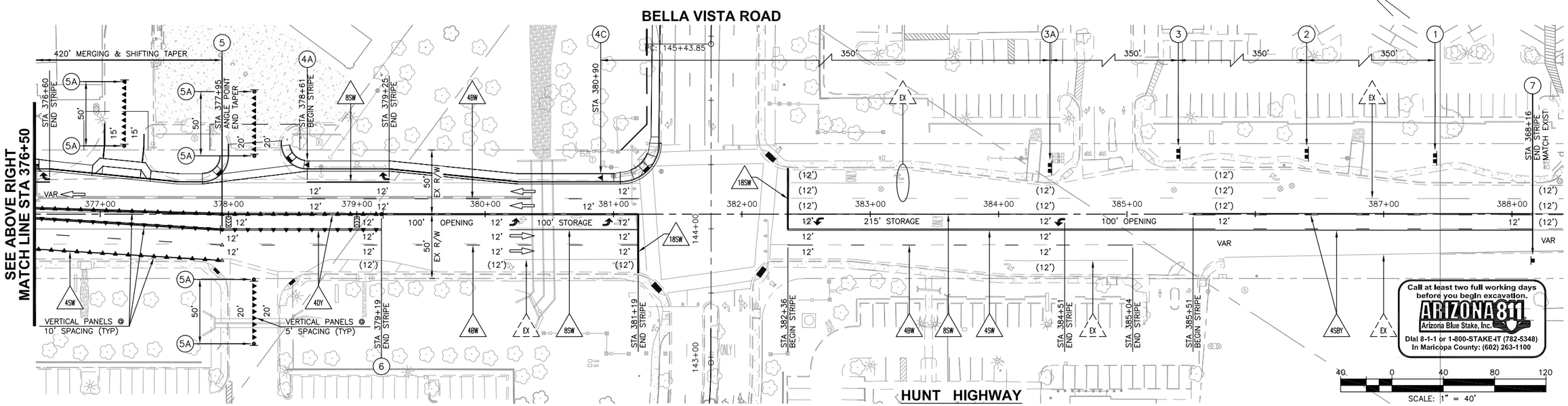
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001			





TYPICAL SECTION
HUNT HIGHWAY
STA 367+92± TO STA 373+25±
NO SCALE

HUNT HIGHWAY



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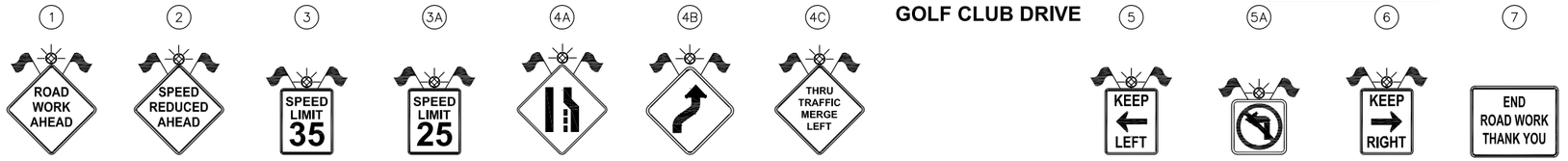
40 0 40 80 120
SCALE: 1" = 40'



1	2	3	3A	4A	4B	4C	5	5A	6	7
W20-1 48"X48"	W3-5a 48"X48"	R2-1 30"X36"	R2-1 30"X36"	W4-2R 48"X48"	W1-4R 48"X48"	W4-7L 48"X48"	R4-7a 18x24"	R3-2 24"X24"	R4-8a 18"x24"	G20-2AZ 48"x36"

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PHASE 5

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
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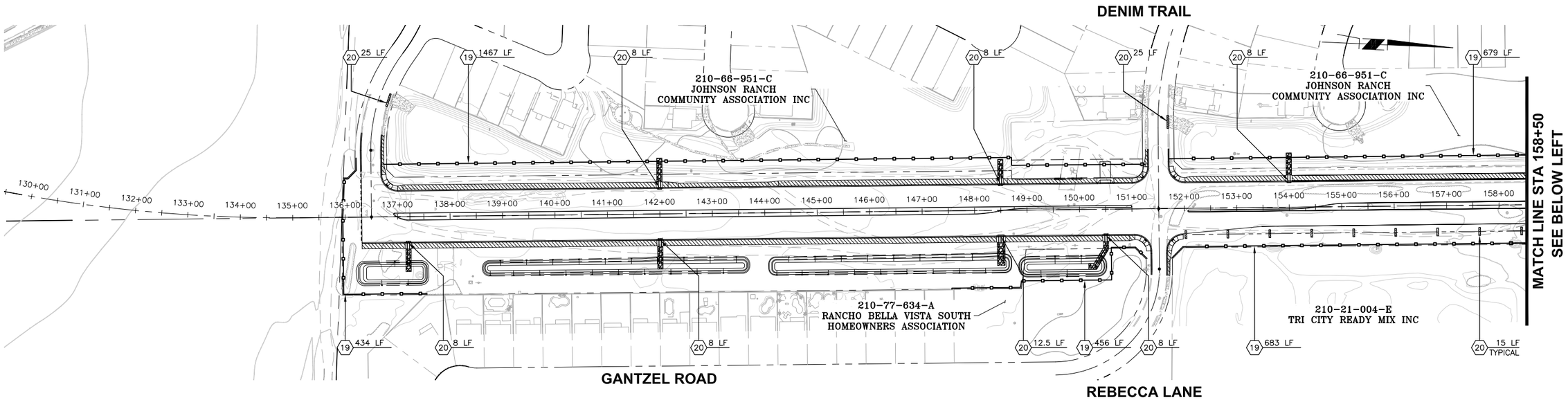
9	AZ	62952173 & 662170001			

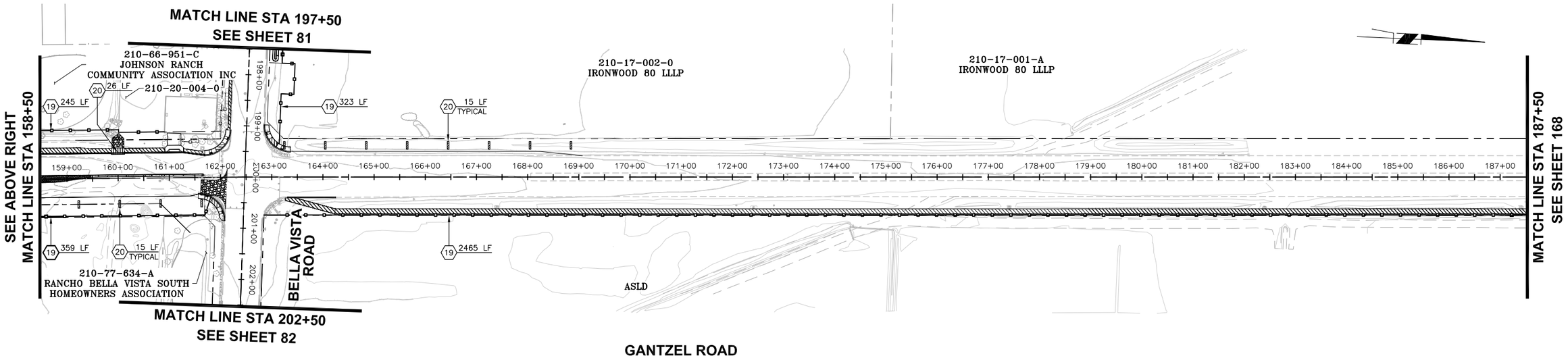
100 0 100 200 300
SCALE: 1"=100'

STORM DRAIN CONST. NOTES

(19) INSTALL SILT FENCE PER DETAIL ES6 ON SHEET 174.

(20) INSTALL SEDIMENT LOG AT STORM DRAIN PER DETAIL ES1 ON SHEET 173.





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LEGEND

SEDIMENT LOG

SILT FENCE

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STORM WATER POLLUTION PREVENTION PLANS

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

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100 0 100 200 300

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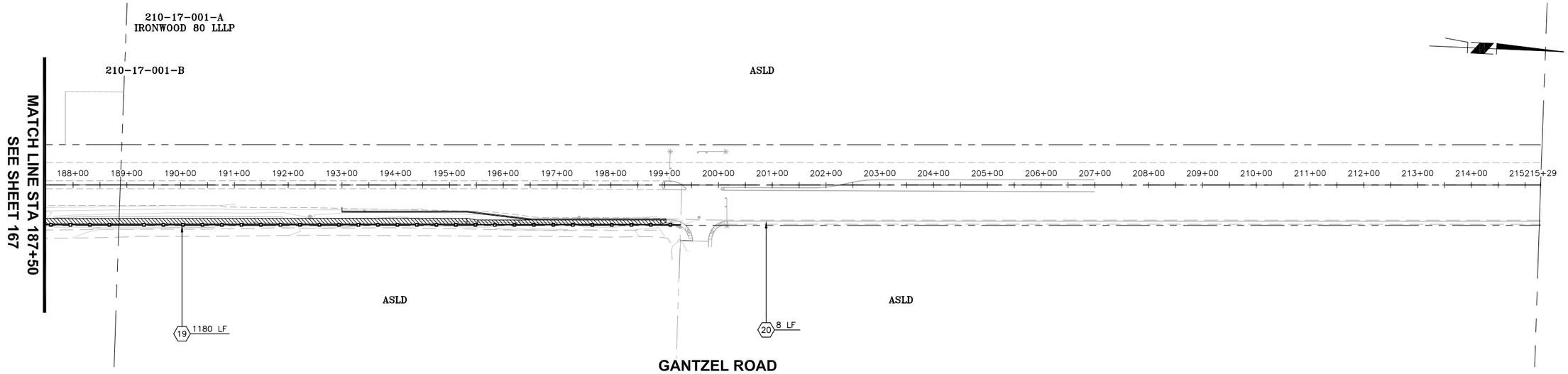

LEGEND

SEDIMENT LOG

SILT FENCE

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100 0 100 200 300
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STORM DRAIN CONST. NOTES

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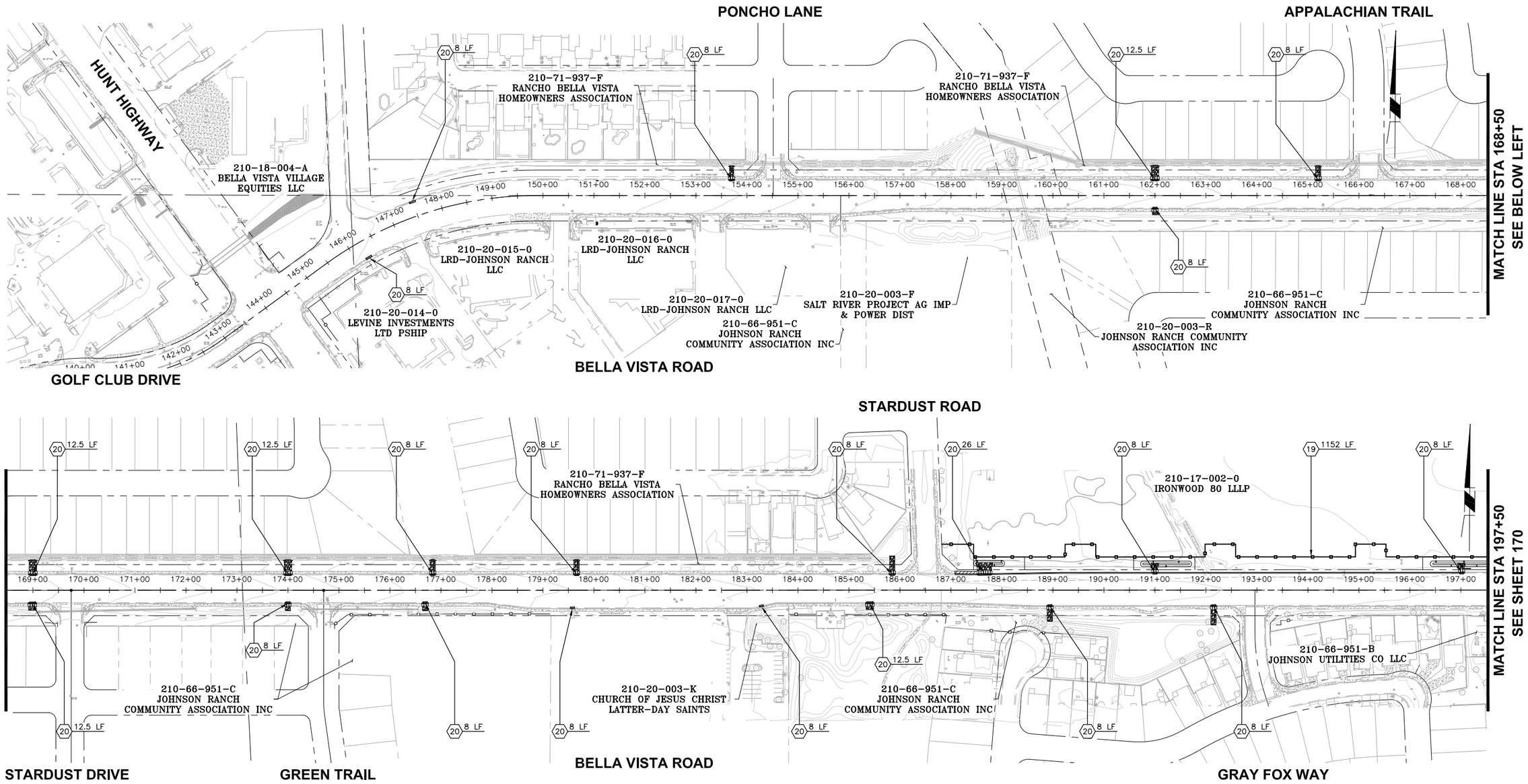

NO.	REVISION	BY	APPR	DATE

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SEDIMENT LOG
SILT FENCE

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LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
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F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
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100 0 100 200 300
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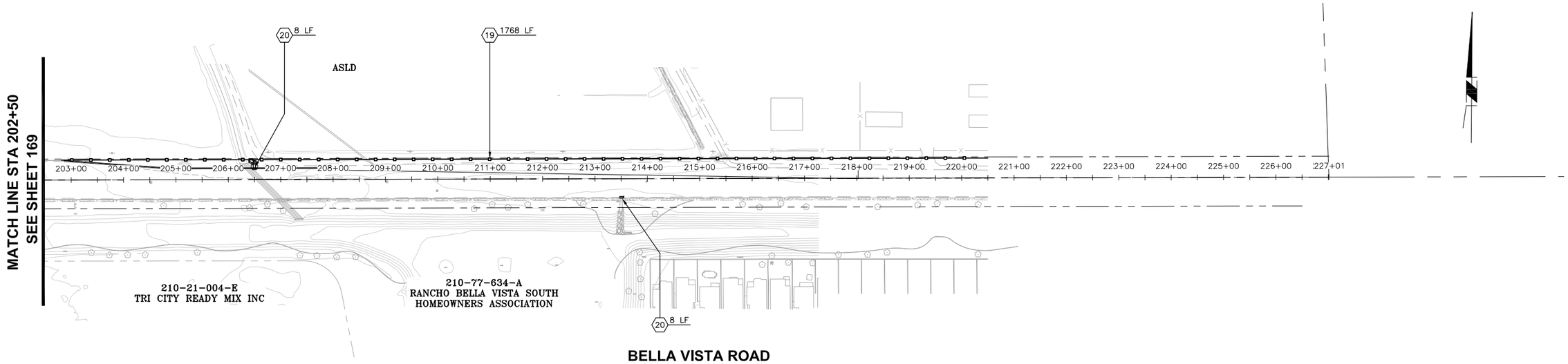

LEGEND

SEDIMENT LOG
SILT FENCE

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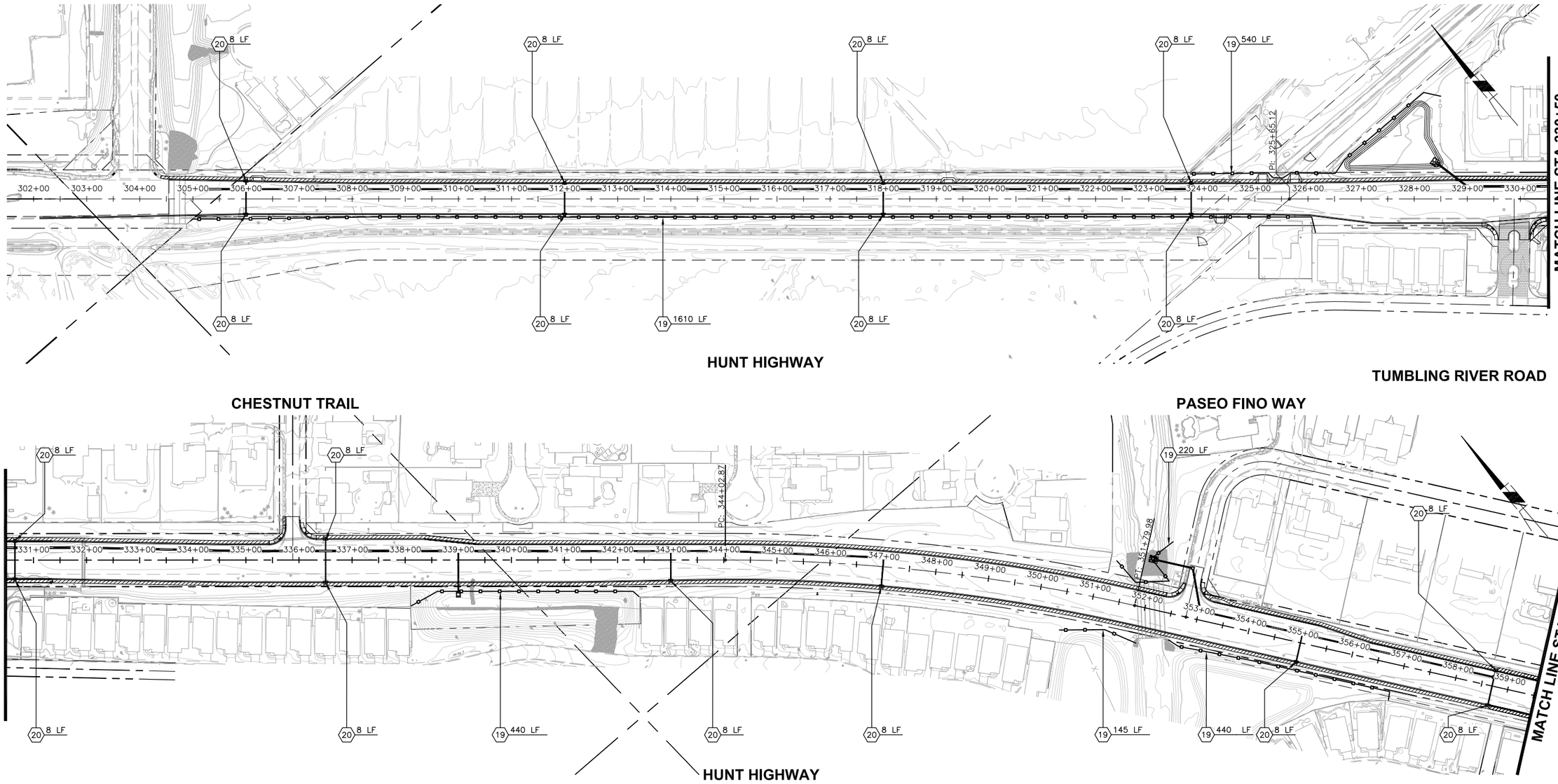

LEGEND

SEDIMENT LOG

SILT FENCE

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SHEET 171 OF 176

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100 0 100 200 300
SCALE: 1"=100'

STORM DRAIN CONST. NOTES

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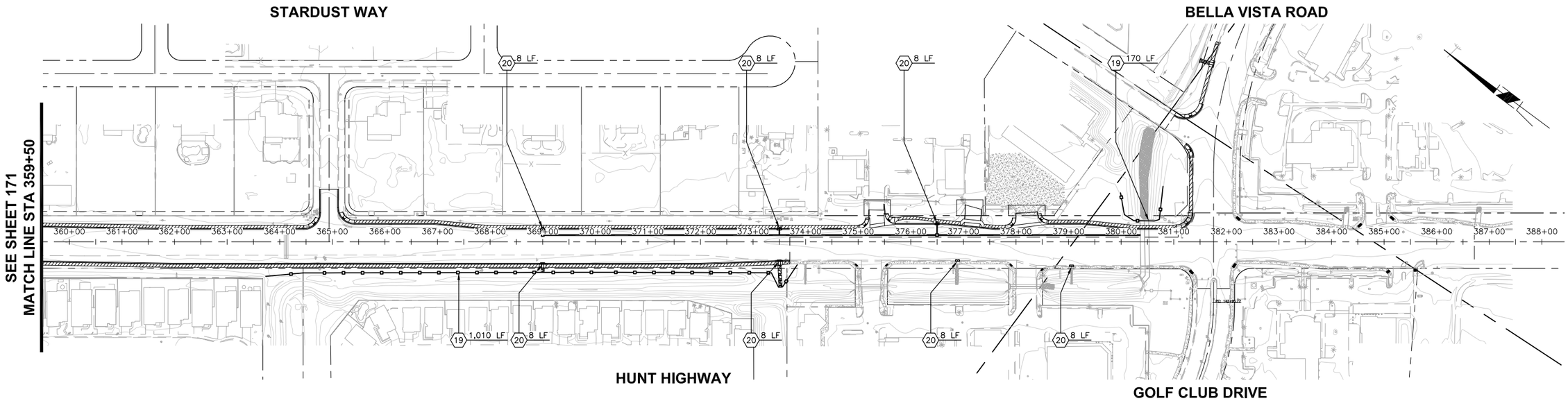

LEGEND

SEDIMENT LOG
SILT FENCE

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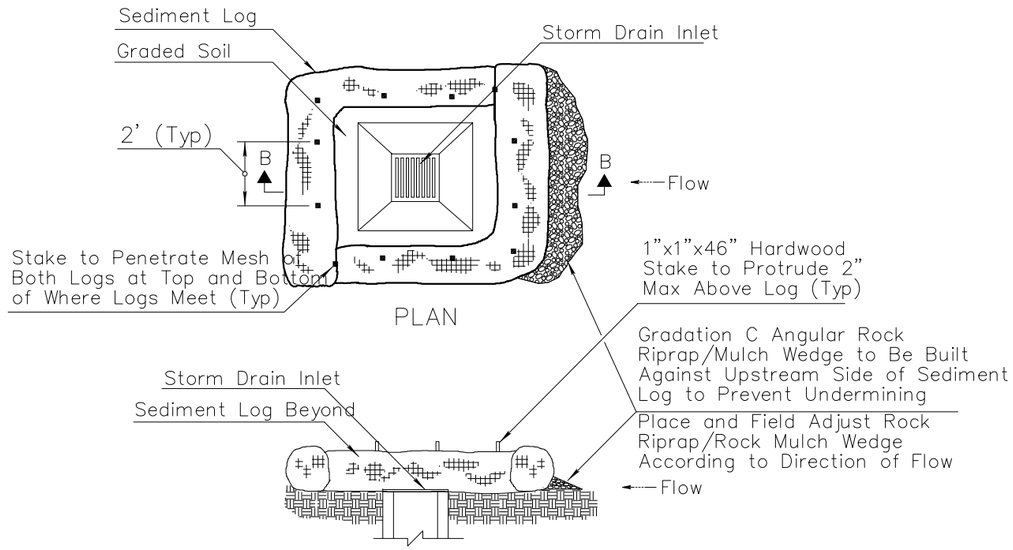
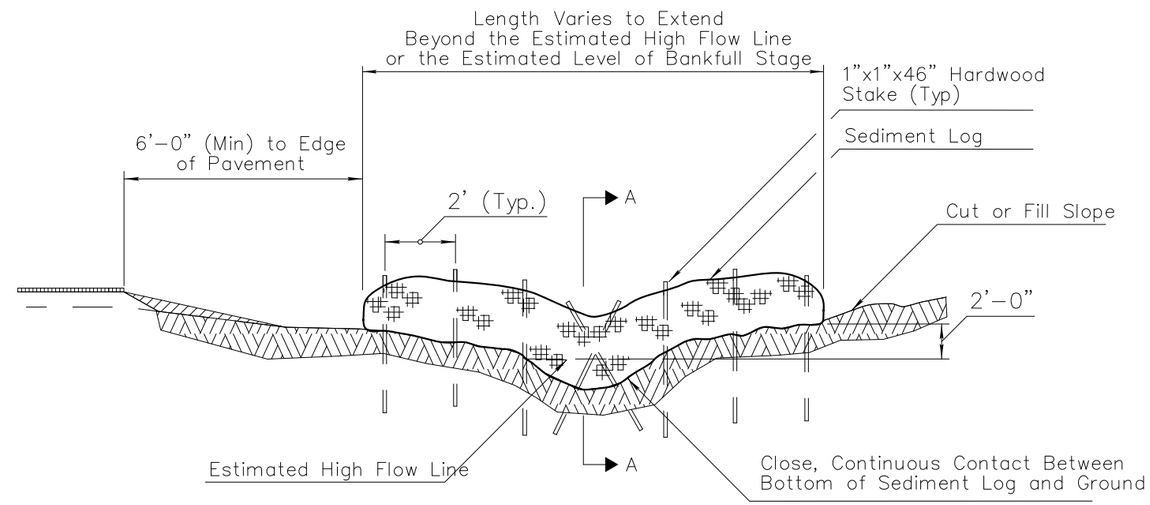
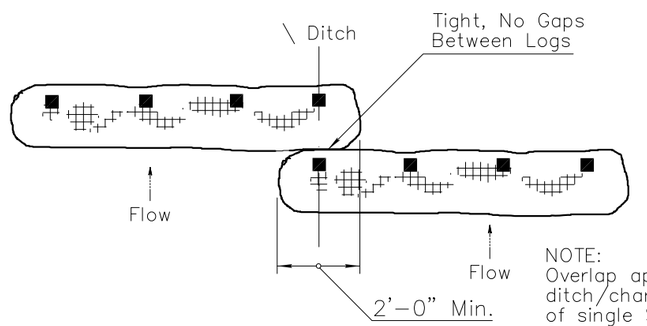


SEDIMENT LOG AT STORM DRAIN
SECTION B–B (NTS)

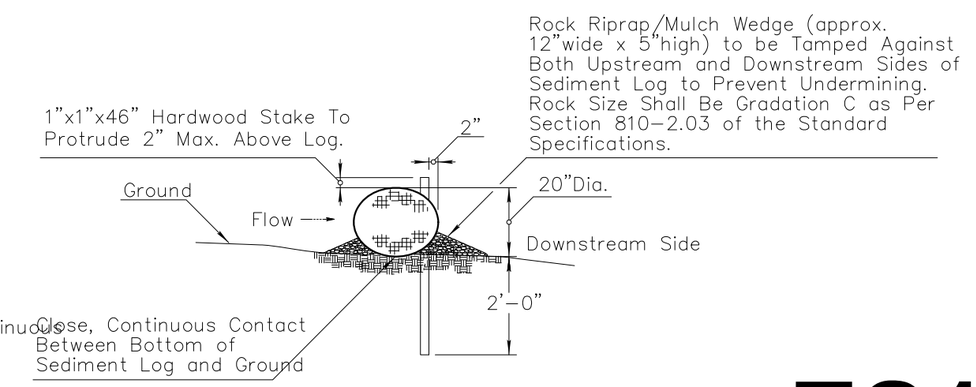


SEDIMENT LOG IN DITCH/CHANNEL
SECTIONAL ELEVATION (NTS)



NOTE:
Overlap applies to situations where ditch/channel is wider than length of single Sediment Log. Two or multiple Sediment Logs may be necessary.

TYPICAL OVERLAP
PLAN (NTS)



SECTION A–A (NTS)

NOTES:
1. Sediment Logs shall not be installed in the urban freeway medians, nor where cable barrier systems are employed.
2. Locate Sediment Logs as indicated in plans, SWPPP or as directed by the Engineer.
3. Select, install and maintain Logs per manufacturers' specifications and good engineering practices.
4. Lay sediment log across prepared ditch or channel. Trenching or burial of Sediment Logs is not required. The close, continuous contact between the bottom of the Log and the ground is mandatory. The Logs shall be installed in the ditch, swale or channel bottom perpendicular to the flow of water as shown on detail this sheet.
5. Stake Log as shown. Stakes shall be placed through downstream side only as shown.
6. DO NOT drive stakes through center of the log. Stakes must be driven into the ground as shown.
7. Ensure that no gaps exist between soil and bottom of Sediment Log. Repair any rills or undercuts promptly.
8. Placement of Sediment Logs shall be evaluated by the Engineer in rocky soil conditions.
9. Remove Sediment Log BMPs within the ditches/channels and around the storm drain inlets as per the Direction of the Engineer or as soon as practicable upon stabilization of the construction disturbed area.
10. Dispose of Sediment Logs and trapped sediment material and fill trench created by Sediment Log.
11. The installation and maintenance of Sediment Log BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Sediment Logs shall be installed and maintained to carry the stormwater of at least 2–year, 24–hour events.
12. Field adjust and correct Sediment Log BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
13. Install rock mulch/riprap for channel/ditch lining or rock check dams for longitudinal ditch slopes that exceed 5% and/or for soil conditions not suitable for log installation.
14. The Sediment Log BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintenance, final removal, and disposal, as well as returning the area to an acceptable condition as approved by the Engineer.
15. Refer to Standard Specification Section 810–2.06(B) for Sediment Log material specifications.

DETAIL ES1

SEDIMENT LOG

NO.	REVISION	BY	APPR	DATE

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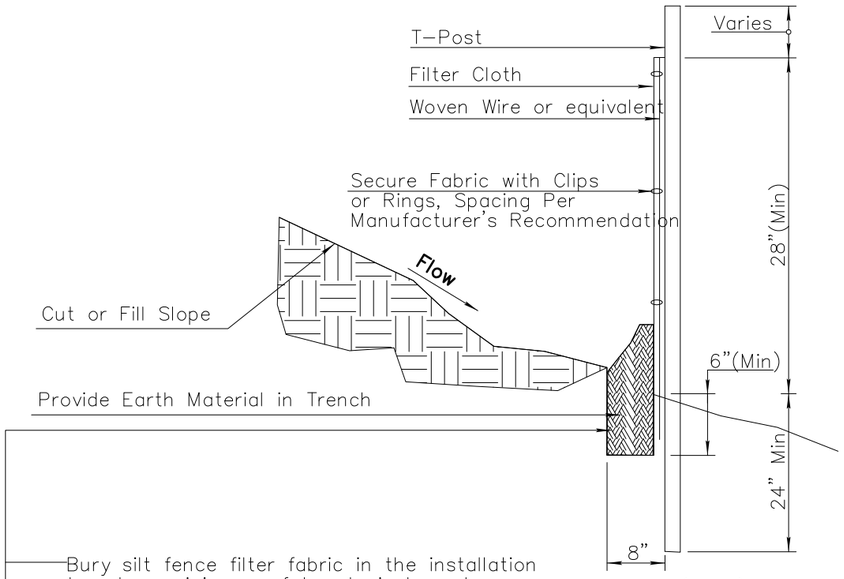
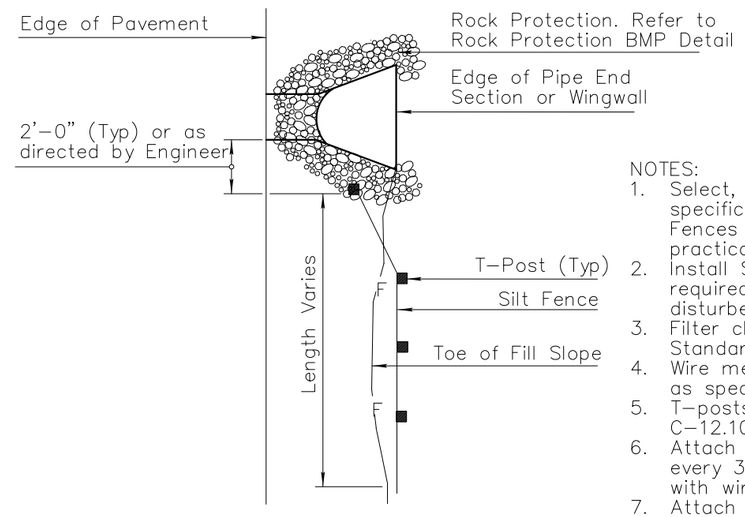


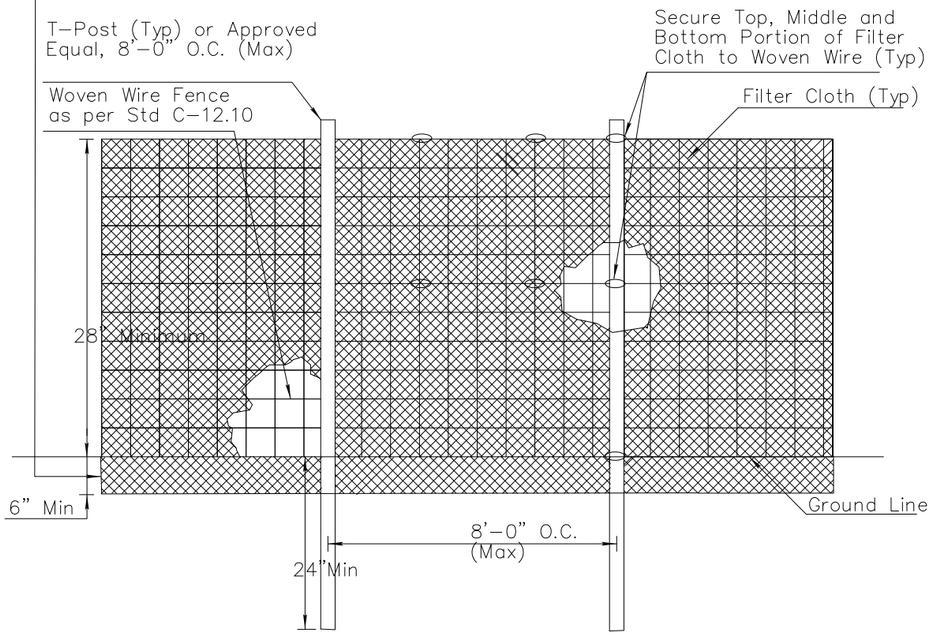
SECTION (NTS)



SILT FENCE PLACEMENT AT PIPE INLET/OUTLET PLAN VIEW (NTS)

NOTES:

1. Select, install, and maintain Silt Fence per the manufacturer's specifications and good engineering practices. Remove Silt Fences per the direction of the Engineer or as soon as practicable upon stabilization of the construction disturbed area.
2. Install Silt fences at areas of construction disturbance as required, especially the downslope perimeters of construction disturbed areas.
3. Filter cloth shall be a woven polypropylene fabric and shall conform t Standard Specification Sub–section 1014–8.
4. Wire mesh fence fabric shall be standard woven wire fence fabric, as specified in Construction Standard C–12.10.
5. T–posts shall be steel line posts as specified in Construction Standar C–12.10 with a minimum length of 6'–0".
6. Attach Filter Cloth to the top wire and midpoint of the fence fabric every 3'–0" and attach to each T–post at the top, middle, and bott with wire ties.
7. Attach Silt Fence filter fabric on the upslope side of T–posts to with potential surface runoff and trap sediment.
8. Install Silt Fences on the contour line, unless otherwise specified.
9. Field adjust and correct Silt Fence BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
10. The installation and maintenance of Silt Fence BMPs shall not negativ impact traffic safety, nor the designed function of roadway or bridge drainage facilities.
11. Silt Fence BMPs shall be installed and maintained to carry the storm of at least 2–year, 24–hour events.
12. The Silt Fence BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintenance, final removal and disposal of this temporary BMP, as well as returnin the area to an acceptable condition as approved by the Engineer.



ELEVATION (NTS)

DETAIL ES6

SILT FENCE

NO.	REVISION	BY	APPR	DATE

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

	NAME	DATE
DESIGN	DR	8/15
DRAWN	DR	8/15
CHECKED	CSS	8/15

T·Y· LIN INTERNATIONAL
engineers | planners | scientists
60 East Rio Salado Parkway
Tempe, AZ 85281

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

STORM WATER POLLUTION PREVENTION PLAN

REGISTERED PROFESSIONAL ENGINEER (CIVIL) 48279 CARLOS SANCHEZ SORIA Date Signed 8/27/15 ARIZONA, U.S.A. Expires 9/30/17

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D–1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

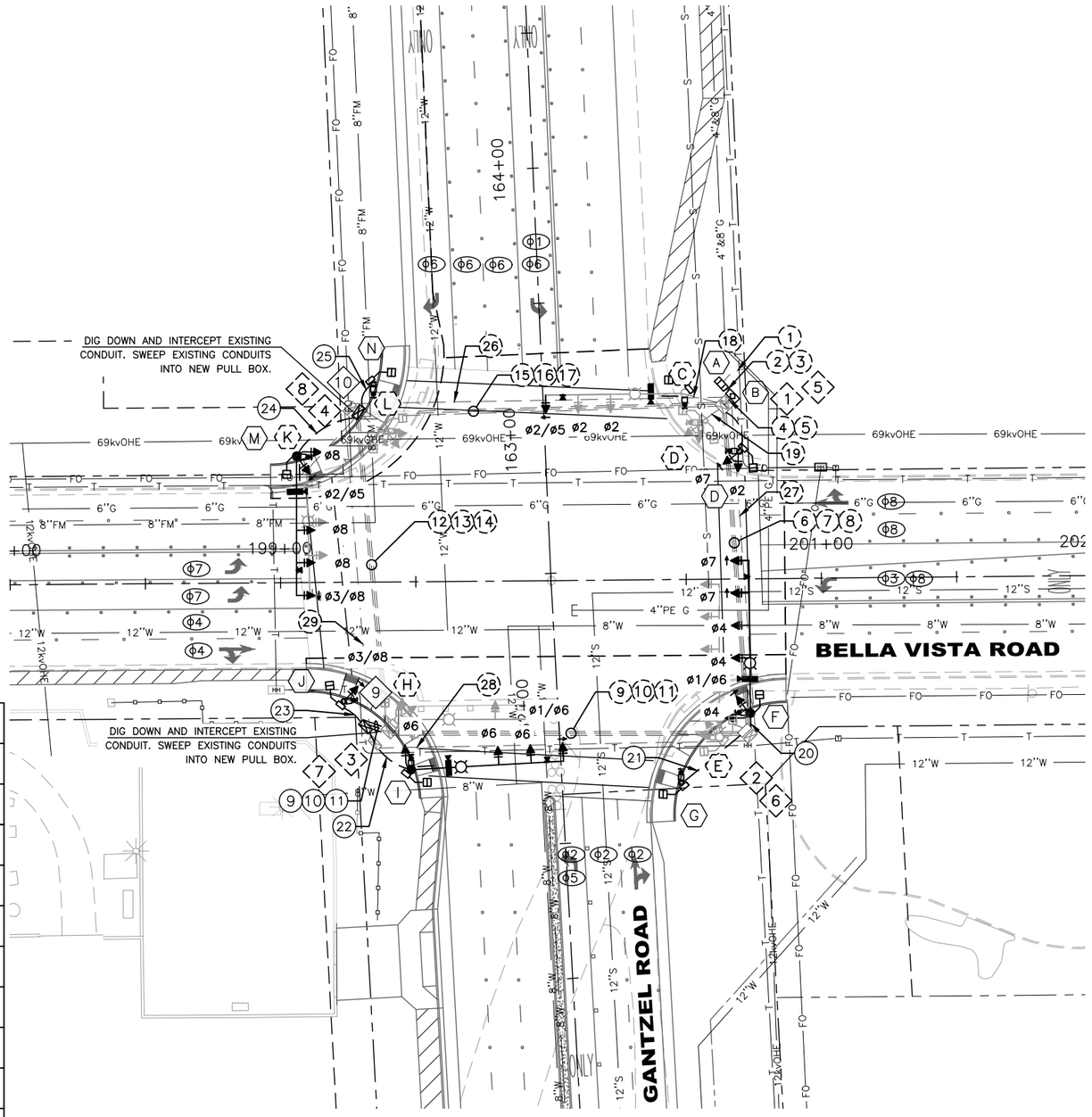
SHEET 174 OF 176

Q:\221792.00 Gantzel Road\Cad\Delv Files\PHASE I\Swppp\2170001_174_PH1_Swppp_detail.dwg 8/28/2015 7:54:57 AM Carlos Sanchez-Soria TY Lin Half Scale.ctb

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001	175	176	

LEGEND

- CONDUIT RUN
- METER PEDESTAL
- CONTROLLER CABINET
- NO. 7 PULL BOX WITH EXTENSION
- NO. 7 PULL BOX
- PRE-EMPTION DETECTOR WITH STROBE
- VIDEO DETECTION CAMERA
- PEDESTRIAN PUSH BUTTON
- VIDEO DETECTION ZONE AND PHASE NUMBER
- TRAFFIC SIGNAL HEAD
- PEDESTRIAN HEAD
- NEW CONDUIT RUN (SEE CONDUCTOR SCHEDULE)
- TRAFFIC SIGNAL (SEE POLE SCHEDULE)
- CONSTRUCTION NOTE
- PULLBOX (SEE PULLBOX SCHEDULE)



PULLBOX SCHEDULE

NO.	TYPE	LOCATION*
1	NO 7 W/EXT	EXISTING TO REMAIN
2	NO 7	EXISTING TO REMAIN
3	NO 7	EXISTING TO BE REMOVED
4	NO 7	EXISTING TO BE REMOVED
5	NO 7 W/EXT	EXISTING TO REMAIN
6	NO 7 W/EXT	EXISTING TO REMAIN
7	NO 7 W/EXT	EXISTING TO REMAIN
8	NO 7 W/EXT	EXISTING TO REMAIN
9	NO 7 W/EXT	STA 199+31 53' RT
10	NO 7 W/EXT	STA 199+29 63' LT

* ALL STATIONING FROM ℄ OF BELLA VISTA ROAD. STATIONS AND OFFSETS SHOWN ARE APPROXIMATE, ACTUAL LOCATIONS ARE TO BE FIELD VERIFIED BY THE TRAFFIC SIGNAL INSPECTOR PRIOR TO INSTALLATION.

GENERAL NOTES:

1. THE TRAFFIC SIGNAL AT THE INTERSECTION OF BELLA VISTA ROAD AND GANTZEL ROAD WILL BE OWNED AND MAINTAINED BY THE PINAL COUNTY PUBLIC WORKS DEPARTMENT. PINAL COUNTY PRACTICES, STANDARDS, AND DETAILS WILL GOVERN THE DESIGN AND MAINTENANCE OF THIS INTERSECTION.
2. THE LOCATION OF UTILITIES AS SHOWN ON THE PLANS, ARE APPROXIMATE. ALL UTILITIES INVOLVED MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT "BLUE STAKE" AT 602-263-1100 PRIOR TO STARTING WORK.
3. ALL CABINET, SERVICE PEDESTAL, AND POLE FOUNDATION LOCATIONS, AS SHOWN ON THE PLANS, ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL NEW FOUNDATION LOCATIONS PRIOR TO CONTACTING THE PINAL COUNTY PUBLIC WORKS DEPARTMENT.
4. THE CONTRACTOR SHALL VERIFY ALL NEW FOUNDATION LOCATIONS DO NOT CONFLICT WITH ANY UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SIGNAL EQUIPMENT AND MATERIALS IF APPLICABLE.
6. THE CONTRACTOR SHALL WORK FROM THE COUNTY APPROVED PLAN SET.
7. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COUNTY TRAFFIC SIGNAL INSPECTOR, AND NOT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, IS SUBJECT TO REMOVAL AND REPLACEMENT BY THE CONTRACTOR AT NO EXPENSE TO PINAL COUNTY.
8. ILLUMINATED STREET NAME SIGN MESSAGE/TEXT WILL BE DETERMINED BY PINAL COUNTY AS PART OF THE EQUIPMENT SUBMITTAL PROCESS.
9. THE CONTROLLER CABINET SHALL BE WIRED AND LABELED WITH THE SAME PHASE NUMBER DESIGNATIONS, FOR INITIAL AND FUTURE PHASES AS SHOWN IN THE PHASE MOVEMENT DIAGRAM. EACH CONNECTOR SHALL HAVE ALL PINS WITHIN THE CONNECTOR BROUGHT TO CABINET TIE POINTS.
10. PEDESTRIAN PUSH BUTTONS AND ASSOCIATED ACCESS SHALL CONFORM TO ADA REQUIREMENTS INCLUDING AUDIBLE AND VIBRO-TACTILE INDICATIONS. ADA AUDIBLE PEDESTRIAN SIGNALS SHALL BE INSTALLED PER PINAL COUNTY REQUIREMENTS. THE SIDEWALK LAYOUT SHALL BE BASED ON THE FINAL POLE LOCATIONS AND SHALL BE APPROVED BY THE COUNTY TRAFFIC SIGNAL INSPECTOR.
11. BACKFILLING SHALL NOT BE STARTED UNTIL CONDUIT HAS BEEN INSPECTED AND APPROVED BY THE PINAL COUNTY TRAFFIC SIGNAL INSPECTOR.
12. ALL PULL BOXES SHALL BE ADOT-APPROVED BRANDS AND MODELS OF POLYMER BOXES, LIDS, EXTENSIONS AND LOCKS. TRAFFIC SIGNAL PULL BOX LIDS SHALL SAY "PINAL COUNTY TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED ON THE PLANS.
13. TRAFFIC CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SECTION VI, CURRENT EDITION. ANY CURRENT ADOT SUPPLEMENTS, AND CITY OF PHOENIX TRAFFIC BARRICADE MANUAL, CURRENT EDITION.
14. A COPY OF APPROVED PROJECT PLANS SHALL BE ON SITE AT ALL TIMES AND IN THE POSSESSION OF THE TRAFFIC SIGNAL CONTRACTOR DURING CONSTRUCTION. ANY DEVIATIONS FROM APPROVED PLANS SHALL BE APPROVED IN WRITING ON THE ON-SITE PLANS, BY THE PINAL COUNTY TRAFFIC SIGNAL INSPECTOR.
15. THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 21' FROM THE CROWN OF THE ROAD TO THE BOTTOM OF THE MAST ARM. DOCUMENTATION SHALL BE PROVIDED TO THE PINAL COUNTY SIGNAL INSPECTOR ON SITE.
16. THE CONTRACTOR SHALL SUPPLY AND INSTALL A 36" X 36" "TRAFFIC CONTROL CHANGE" SIGN, WITH TWO ORANGE FLAGS PER SIGN, ON EACH APPROACH, AS DIRECTED BY THE PINAL COUNTY TRAFFIC SIGNAL INSPECTOR. THE LOCATION OF EACH SIGN SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REQUIREMENTS, AND MUST BE APPROVED BY THE PINAL COUNTY TRAFFIC SIGNAL INSPECTOR. THE MOUNTING HEIGHT SHALL BE MINIMUM 7'-0". SIGNS SHALL BE IN PLACE AT THE TIME OF ACTIVTION OF THE SIGNAL AND REMAIN IN PLACE FOR 30 CONSECUTIVE DAYS.

Call at least two full working days before you begin excavation
ARIZONA811
Call 811 or click Arizona811.com

SCALE: 1"=20'
0' 10' 20' 40'

NO.	REVISION	BY	APPR	DATE

CAUTION
UNDERGROUND UTILITIES

NOTE TO CONTRACTOR:
SOUTHWEST TRAFFIC ENGINEERING, LLC. (SWTE) HAS ENDEAVORED TO PROVIDE ACCURATE UTILITY INFORMATION BASED ON THE MOST CURRENT DATA AVAILABLE THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF UNDERGROUND UTILITIES SHOWN OR NOT SHOWN ON THESE PLANS WITH RESPECT TO LINE AND GRADE PRIOR TO CONSTRUCTION.

	NAME	DATE
DESIGN	CBW	8/15
DRAWN	RAH	8/15
CHECKED	CBW	8/15

SWTE
SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1610
Phoenix, AZ 85012
Tel 602.265.SWTE (7983)
Fax 602.266.1115
www.swte.us

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC SIGNAL PLAN

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Professional Engineer (Civil) CERTIFICATE NO. 42636 CHRISTOPHER B. WILLIAMS Date Signed 8/17/15 ARIZONA, U.S.A.
Expires 6-30-17

F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	AZ	62952173 & 662170001	176	176	

CABINET AND POLE SCHEDULE

TRAFFIC SIGNAL CONTROLLER: CABINET	TYPE	EQUIPMENT	ASSEMBLY NOTES	REMARKS	LOCATION @ BELLA VISTA CL
A	METER PEDESTAL	INSTALL MYERS MEUG 16 TS POWER METER PEDESTAL.		INSTALL NEW METER PEDESTAL ON EXISTING FOUNDATION.	STA 200+63.6, 72.1' RT
B	TYPE IV	SIEMENS M60 CONTROLLER		INSTALL NEW CONTROLLER IN EXISTING CABINET.	STA 200+67.6, 67.4' RT

POLES NO.	TYPE	MAST ARMS SIG.	MAST ARMS LUM.	SIGNALS MTG.	SIGNALS FACE	PED P.B. SIGN	REMARKS	LOCATION
C	R	50'	20'	3-II 1-V	2-F 1-Q 1-M/H 1-PPB	R10-3(L)	INSTALL 3 SQUARE NAVION LED LUMINAIRE. INSTALL NEW IISNS, OPTICOM DETECTOR, PED PB AND VIDEO DETECTION CAMERA ON EXISTING SIGNAL MAST ARM. CHANGE EXISTING F HEAD TO Q HEAD. RELOCATE EXISTING M/H FROM POLE D.	EXISTING TO REMAIN
D / D	A	–	–	1-V 1-VII	1-F 1-R 1-M/H 1-PPB	R10-3(R)	INSTALL NEW R-HEAD ON EXISTING POLE. RELOCATE M/H TO POLE C.	RELOCATE POLE TO NEW FOUNDATION AT STA 200+70.0, 47.1' LT
E	R	55'	20'	3-II 1-VII 1-VII	3-F 2-F 2-M/H 2-PPB	R10-3(L) R10-3(R)		EXISTING TO BE REMOVED
F	R	55'	20'	4-II 1-VIII 1-V	2-F 2-R 1-F 1-G 1-M/H 1-PPB	R10-3(L)	INSTALL 3 SQUARE NAVION LED LUMINAIRE, 120V IISNS, ADA AUDIBLE PEDESTRIAN SIGNALS. IISNS SIGN DESIGN AND LIGHTING SHALL BE TO PINAL COUNTY STANDARDS AND SPECIFICATIONS. SEE NOTES 2, 3 AND 4	STA 200+73.1, 49.5' RT
G	A (12')	–	–	1-V	1-M/H 1-PPB	R10-3(R)	SEE NOTES 2 AND 3	STA 200+47.4, 75.1' RT
H	R	50'	20'	2-II 1-VII 1-VIII	2-F 2-F 2-M/H 2-PPB	R10-3(L) R10-3(R)		EXISTING TO BE REMOVED
I	R	55'	20'	3-II 1-VI	2-F 1-Q 1-F 1-PPB	R10-3(L)	INSTALL 3 SQUARE NAVION LED LUMINAIRE, 120V IISNS, ADA AUDIBLE PEDESTRIAN SIGNALS. IISNS SIGN DESIGN AND LIGHTING SHALL BE TO PINAL COUNTY STANDARDS AND SPECIFICATIONS. SEE NOTES 2, 3 AND 4	STA 199+47.2, 69.4' RT
J	A (12')	–	–	1-V 1-VII	1-Q 2-M/H 1-PPB	R10-3(R)	SEE NOTES 2 AND 3	STA 199+22.9, 44.0' RT
K	R	45'	20'	3-II	3-F			EXISTING TO BE REMOVED
L	A	–	–	2-V	2-F 2-M/H 2-PPB	R10-3(L) R10-3(R)		EXISTING TO BE REMOVED
M	✳ K (EXT)	50'	–	3-II 1-VIII 1-V	2-F 1-F 1-G 1-G 1-M/H 1-PPB	R10-3(L)	INSTALL 120V IISNS, ADA AUDIBLE PEDESTRIAN SIGNALS. IISNS SIGN DESIGN AND LIGHTING SHALL BE TO PINAL COUNTY STANDARDS AND SPECIFICATIONS. SEE NOTES 2, 3 AND 4	STA 199+5.9 46.7' LT
N	A (10')	–	–	1-V	1-M/H 1-PPB	R10-3(R)		STA 199+34.9 73.2' LT

IISNS = INTERNALLY ILLUMINATED STREET NAME SIGN PER PINAL COUNTY.

⧗ = 3M OPTICOM 722 DETECTOR ON SIGNAL MAST ARM.

▮ = ITERIS VANTAGE VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM.

✳ K-POLE W/ EXTENDED VERTICAL SHAFT.

CONDUCTOR SCHEDULE

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E							E	E	E	E
	CONDUIT RUN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
	CONDUIT SIZE (INCH)	2.5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
SIGNAL HEADS, PEDESTRIAN HEADS, AND PEDESTRIAN PUSH BUTTONS	#14 IMSA 19-1 20-CONDUCTOR				4		3			1						1			1	1	1	1	1	1	1	1				
	#14 IMSA 19-1 7-CONDUCTOR																		1	1	3		1	1	2					
	#14 IMSA 19-1 4-CONDUCTOR																		2	4	5	2	4	2	5	2				
	#8 WHITE THW, COMMON, SOLID																													
	#8 GREEN THW, SOLID																													
LUMINAIRES AND IISNS — CK #1	#10 BLACK, SOLID, RED TAPE					1		1	SPARE		1	SPARE	SPARE	SPARE	SPARE		1	SPARE			1		1							
CK #1	#10 WHITE, SOLID, RED TAPE					1		1			1						1				1		1							
CK #2	#10 BLACK, SOLID, BROWN TAPE					1		1			1						1		1		1		1							
CK #2	#10 WHITE, SOLID, BROWN TAPE					1		1			1						1		1		1		1							
	#10 GREEN THW, SOLID					1		1			1						1				1		1							
SERVICE	#6 (120/240)	3	3	3																										
PRE-EMPTION ⧗	CABLE PER MANUFACTURER					1		1			1						1		1		1		1							
OTHER	#8 BARE BOND				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
	6 CONDUCTOR TWISTED PAIR (VIDEO DETECTION)					4		1			1						1		1		1		1							
	#12 LOCATE WIRE				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MULE TAPE				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

CONDUCTOR SCHEDULE NOTES:
1. ALL NEW WIRE SHALL BE SOLID AND PROVIDED AND INSTALLED BY THE CONTRACTOR.
2. THE IMSA 20-CONDUCTOR CABLE SHALL BE RUN UNSPLICED FROM THE CABINET TO THE SIGNAL POLE TERMINAL BLOCK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MULTI-COLOR CONDUCTORS WHICH MEET THE COLOR CODING CRITERIA IDENTIFIED BELOW.
4. INSTALL #8 BARE BOND IN ALL EMPTY CONDUITS.
5. CONTRACTOR SHALL VERIFY ALL CONDUIT AND CONDUCTOR QUANTITIES. ALL CONDUITS CROSSING EXISTING PAVED ROADWAYS TO BE HORIZONTALLY BORED.

E – EXISTING CONDUIT TO REMAIN

IMSA CABLE 19-1, #14AWG, 7 CONDUCTOR & 4 CONDUCTOR

SIGNAL HEADS OUTBOARD & FAR LEFT — 7 CONDUCTOR CABLE: BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
ORANGE	YELLOW ARROW
BLUE	GREEN ARROW
WHITE	VEH. COM.
WHITE/BLACK	VEH. COM.

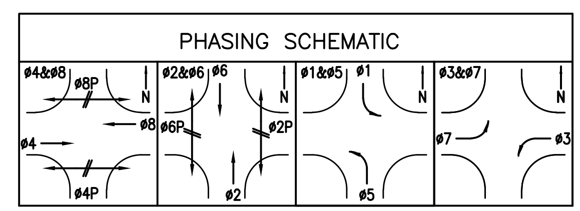
SIGNAL HEADS INBOARD & SIDEMOUNT — 4 CONDUCTOR CABLE: BASIC COLOR	SIGNAL INTERVAL
RED	RED
BLACK	YELLOW
GREEN	GREEN
WHITE	VEH. COM.

PEDESTRIAN HEADS — 4 CONDUCTOR CABLE: BASIC COLOR	SIGNAL INTERVAL
RED	DON'T WALK
GREEN	WALK
WHITE	PED. COM.
BLACK	SPARE

PUSH BUTTON — 4 CONDUCTOR CABLE: BASIC COLOR	PUSH BUTTON STATION
RED	PUSH BUTTON
WHITE	P.B. COM.
GREEN	SPARE
BLACK	SPARE

THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE

FLASH SEQUENCER	
PHASE 4,7 & 3,8	RED
PHASE 2,5 & 1,6	YELLOW



IMSA CABLE 19-1, #14AWG, 20 CONDUCTOR

CABLE #1	CABLE #2	CONDUCTOR COLOR: BASIC COLOR	CONDUCTOR COLOR: TRACER STRIPE	SIGNAL INTERVAL
φ1	φ5 OR OVERLAP A	RED	WHITE	RED
		BLACK	WHITE	YELLOW
		GREEN	WHITE	GREEN
φ2	φ6 OR OVERLAP B	RED	---	RED
		ORANGE	---	YELLOW
		GREEN	---	GREEN
φ3	φ7 OR OVERLAP C	BLACK	RED	RED
		ORANGE	RED	YELLOW
		BLUE	RED	GREEN
φ4	φ8 OR OVERLAP D	RED	BLACK	RED
		ORANGE	BLACK	YELLOW
		GREEN	BLACK	GREEN
φ2 PED	φ6 PED	BLUE	---	WALK
		BLACK	---	DON'T WALK
		WHITE	BLACK	PUSH BUTTON
φ4 PED	φ8 PED	BLUE	WHITE	WALK
		RED	GREEN	DON'T WALK
		WHITE	RED	PUSH BUTTON
ALL PHASES	ALL PHASES	WHITE	---	P.B. COM.
		BLUE	BLACK	SPARE

CABLE #2 SHALL BE MARKED WITH 2 INDIVIDUAL 3/8 INCH WIDE STAINLESS STEEL BANDS SIDE BY SIDE WITH A 1/2 INCH GAP BETWEEN BANDS, AT EACH PULL BOX LOCATION. INDIVIDUAL CONDUCTORS IN THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

SIGNAL EQUIPMENT NOTES:

1. AS APPLICABLE: ALL EQUIPMENT, CONSTRUCTION, AND INSTALLATIONS SHALL CONFORM WITH THE PINAL COUNTY APPROVED MATERIALS FOR TRAFFIC SIGNALS AND LIGHTING; PINAL COUNTY TRAFFIC SIGNAL DESIGN CRITERIA, ADOT TRAFFIC SIGNAL & LIGHTING STANDARD DRAWINGS, AND ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITIONS.
2. ALL PEDESTRIAN SIGNALS SHALL BE LED, COUNTDOWN TYPE WITH A 16x18 INCH FACE.
3. ALL PEDESTRIAN PUSH BUTTON SIGNS SHALL CONFORM TO SIGN R10-3i OF THE 2009 MUTCD WITH CUSTOM MESSAGE AND SOUND OPTIONS (SIMILAR TO POLERA NAVIGATOR). ALL NEW AND EXISTING (REPLACE) PEDESTRIAN PUSH BUTTONS SHALL BE POLERA EZ COMMUNICATOR NAVIGATOR (2-WIRE).
4. INSTALL OPTICOM EMERGENCY VEHICLE PRE-EMPTION SYSTEM WITH FOUR-CHANNEL PHASE SELECTOR (MODEL 764), CARD RACK (MODEL 760E), DETECTOR CABLE (MODEL 138), DETECTOR (MODEL 722), AUXILIARY INTERFACE PANEL MODEL 768 WITH CONFIRMATION LIGHT KIT 575.
5. CONTRACTOR SHALL REPLACE TRAFFIC SIGNAL CONTROLLER, CONFLICT MONITOR AND RACK POWER SUPPLY INSIDE EXISTING CABINET AS DESCRIBED IN THE SPECIAL PROVISIONS.
6. CONTRACTOR SHALL REPLACE 6 EXISTING BATTERIES WITHIN UPS LOCATED INSIDE TRAFFIC SIGNAL CONTROL CABINET. BATTERIES SHALL BE: CLARY U.P.S. MODEL #SP1250LX-N, OPB-1241.
7. LED LUMINAIRE SHALL BE 3-SQUARE NAVION: (NVN-AE-03-U-T3R-10K-4-AD)

Call at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

NO.	REVISION	BY	APPR	DATE

	NAME	DATE
DESIGN	CBW	8/15
DRAWN	RAH	8/15
CHECKED	CBW	8/15

SWTE SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 N. Central Ave., Suite 1810
Phoenix, AZ 85012
Tel 602.266.SWTE (7983)
Fax 602.266.1115
www.swte.us

PINAL COUNTY DEPARTMENT OF PUBLIC WORKS
ENGINEERING BRANCH
DESIGN SECTION

TRAFFIC SIGNAL SCHEDULES

LOCATION HUNT HIGHWAY PHASE 3 – GARY ROAD TO BELLA VISTA ROAD
GANTZEL ROAD PHASE D-1 – OMEGA DRIVE TO POSTON BUTTE HIGH SCHOOL

Registered Professional Engineer (Civil) CERTIFICATE NO. 42636 CHRISTOPHER B. WILLIAMS Date Signed 8/27/15 ARIZONA, U.S.A.
Expires 6-30-17

SHEET 176 OF 176

12" POTABLE WATER TRANSMISSION MAIN ALTERATIONS
PHASE 3

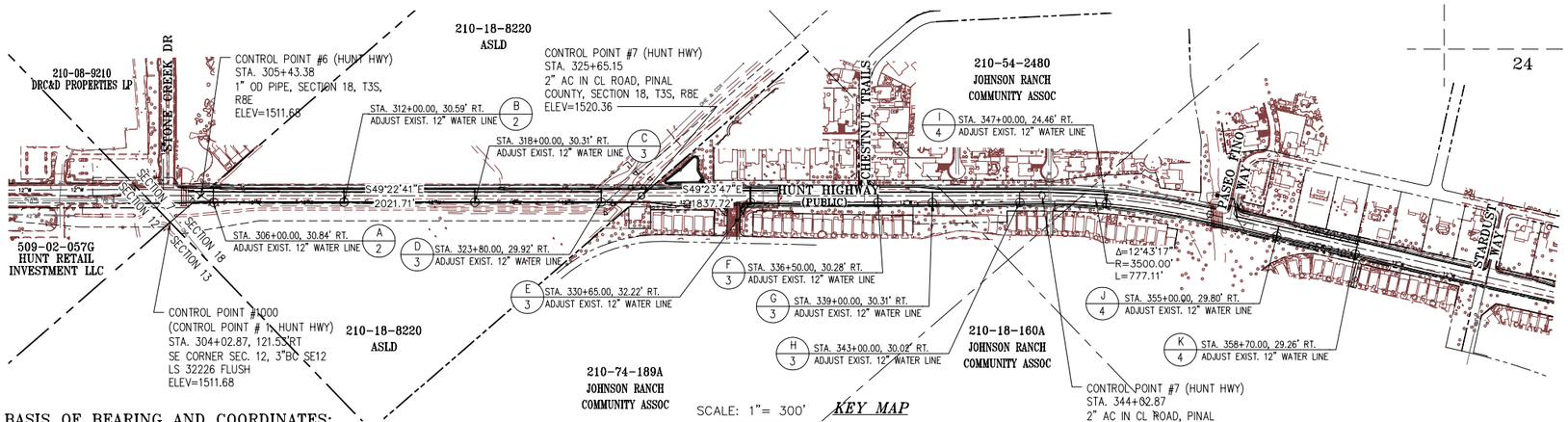
HUNT HIGHWAY – STONE CREEK DRIVE TO BELLA VISTA/GOLF CLUB DRIVE

FOR

Johnson Utilities

FS NO. _____–_____

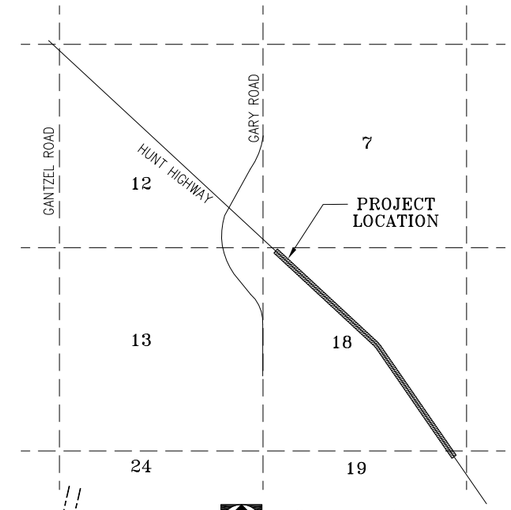
LOCATED IN
SECTIONS 18, TOWNSHIP 3 SOUTH, RANGE 8 EAST
OF THE GILA AND SALT RIVER BASE AND MERIDIAN, PINAL COUNTY, ARIZONA



SCALE: 1"= 300'

KEY MAP

0' 300' 600' 1200'



VICINITY MAP
SCALE: 3"=1 MILE

BASIS OF BEARING AND COORDINATES:

LINEAR UNIT: INTERNATIONAL FOOT (IFT)
GEODETIC DATUM: NORTH AMERICAN DATUM OF 1983 (2007)
VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (SEE BELOW)
SYSTEM: ARIZONA STATE PLANE 1983 (CONUS)
ZONE: CENTRAL

PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF GRID ORIGIN: 31°00'00"N
LONGITUDE OF CENTRAL MERIDIAN: 111°55'00"W
NORTHING AT GRID ORIGIN: 0.000 IFT
EASTING AT CENTRAL MERIDIAN: 700000.000 IFT
SCALE FACTOR ON CENTRAL MERIDIAN: 0.9999 (EXACT)

ALL DISTANCES AND BEARING SHOWN HERON ARE PROJECTED (GROUND) BASED ON POINT POSITION:
PROJECT LATITUDE: 30°58'50--46204--N
PROJECT LONGITUDE: 114°09'00.75032--W
PROJECT HEIGHT: 1282.78903 IFT
GROUND SCALE FACTOR: 1.0001537640 (EXACT)

THE BASIS OF BEARING IS GEODETIC NORTH. NOTE THAT THE GROUND BEARINGS SHOWN HEREON (OR IMPLIED BY GROUND COORDINATES) DO NOT EQUAL GEODETIC BEARINGS DUE TO MERIDIAN CONVERGENCE. ORTHOMETRIC HEIGHTS (ELEVATIONS) WERE TRANSFERRED TO THE USING GPS WITH NGS GEOID MODEL "GEOID09"

THE SURVEY IS REFERENCED TO THE NATIONAL SPATIAL REFERENCE SYSTEM. A PARTIAL LIST OF POINT COORDINATES IS GIVEN BELOW (ADDITIONAL COORDINATES ARE AVAILABLE UPON REQUEST). LOCAL NETWORK ACCURACY ESTIMATES ARE GIVEN AT THE 95% CONFIDENCE LEVEL AND ARE BASED ON AN APPROPRIATELY CONSTRAINED LEAST-SQUARES ADJUSTMENT OF OVER-DETERMINED AND STATISTICALLY INDEPENDENT OBSERVATIONS. THESE ACCURACY ESTIMATES ARE REPRESENTATIVE OF THE OVERALL SURVEY ACCURACY.

"NGS 2E02" DRILL ROD IN HAND HOLE
LATITUDE = 33°12'45.05603"N N-NORTHING = 805137.84994IFT
LONGITUDE = 111°34'56.76883"W-EASTING = 802343.85602IFT
ESTIMATED ACCURACY HORIZONTAL = FIXED
ELLIPSOIDAL HEIGHT = 1366.40092IFTT-ELEVATION = 1463.45144IFT
ESTIMATED ACCURACY VERTICAL = FIXED

POINT #1003, NE CORNER SEC. 12, PINAL COUNTY BRASS CAP
LATITUDE = 33°11'26.86460"N-NORTHING = 797234.9280 IFT
LONGITUDE = 111°34'53.86347"W-EASTING = 80216.02820 IFT
ESTIMATED ACCURACY HORIZONTAL = ±0.054 IFT
ELLIPSOIDAL HEIGHT = 1379.40965 IFT-ELEVATION = 1476.35980 IFT
ESTIMATED ACCURACY VERTICAL = ±0.059 IFT

POINT #1000, SE CORNER SEC. 12, 3"BC SE12 LS 32226 FLUSH
LATITUDE = 33°10'34.57566"N-NORTHING = 791950.44150 IFT
LONGITUDE = 111°34'50.39288"W-EASTING = 802927.95640 IFT
ESTIMATED ACCURACY HORIZONTAL = ±0.036 IFT
ELLIPSOIDAL HEIGHT = 1414.77627 IFT-ELEVATION = 1511.67780 IFT
ESTIMATED ACCURACY VERTICAL = ±0.0501 IFT

REFER TO SHT. 4 (GEOMETRIC CONTROL SHEET) OF HUNT HIGHWAY PHASE 3 WIDENING, PINAL COUNTY DEPARTMENT OF PUBLIC WORKS PROJECT NUMBERS 2170001 & 6621173

JOHNSON UTILITY, L.L.C. HAS REVIEWED THESE PLANS SOLELY FOR THE PURPOSE OF VERIFYING CONFORMANCE WITH THE JOHNSON UTILITY L.L.C. DESIGN GUIDELINES AND STANDARD DETAILS. JOHNSON UTILITY, L.L.C. DISCLAIMS ANY AND ALL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS AND FUNCTIONALITY OF THE DESIGN, WHICH HAS BEEN PREPARED BY OTHERS.

JOHNSON UTILITY, L.L.C. _____ DATE

JOHNSON UTILITY APPROVAL

JOHNSON UTILITY, L.L.C. _____ DATE

RECORD DRAWING CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR _____ DATE

REGISTRATION NUMBER

APPROVALS:

PINAL COUNTY ENGINEER _____ DATE
PINAL COUNTY, PUBLIC WORKS DEPARTMENT
APPROVAL EXPIRES _____ DATE

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY _____ DATE

LEGEND

- RIGHT-OF-WAY CENTERLINE
- EXISTING RIGHT-OF-WAY LINE
- SECTION LINE
- EXISTING SURVEY MONUMENT
- S — EXISTING SEWER AND MANHOLE
- 12" W — EXISTING WATER AND VALVE
- RW — EXISTING RECLAIMED WATER MAIN
- 4" PE G — EXISTING UNDERGROUND GAS LINE AND VALVE
- CTV — EXISTING UNDERGROUND CABLE TV LINE
- EXISTING CURB/EDGE OF PAVEMENT
- 12" RW — NEW RECLAIMED WATER MAIN
- 8" FM — EXISTING 8" FORCE SEWER MAIN
- FO — EXISTING UNDERGROUND FIBER OPTIC LINE
- 24" SD — PROPOSED UNDERGROUND STORM DRAIN LINE
- (K 4) — DETAIL NUMBER / SHEET NUMBER
- ℄ — CENTER LINE
- AIR RELEASE VALVE
- DUCTILE IRON PIPE
- PAVEMENT REPLACEMENT LIMITS

ENGINEER

THE WLB GROUP, INC.
4444 E. BROADWAY
TUCSON, ARIZONA 85711
(520) 881-7480
ATTN: DAVID LITTLE, P.E.

DEVELOPER/OWNER

JOHNSON UTILITIES, INC.
5230 EAST SHEA BLVD.
SCOTTSDALE, AZ 85254
(480) 998-3300
ATTN: BRAD COLE

SHEET INDEX

SHEET 1..... COVER SHEET AND GENERAL NOTES
SHEETS 2..... NOTES AND PLAN & PROFILE SHEETS
SHEET 3..... PLAN & PROFILES
SHEET 4..... PLAN & PROFILES
SHEET 5..... DETAILS

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4444 East Broadway
Tucson, Arizona (520) 881-7480

NO.	REVISION	BY	DATE

SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL) CERTIFICATE NO. 36234 DAVID W. LITTLE Date Signed 8-27-15 ARIZONA U.S.A.
EXPIRES 6/30/2016

JOHNSON UTILITIES
HUNT HIGHWAY
UTILITY IMPROVEMENTS

12" POTABLE WATER
TRANSMISSION MAIN ALTERATIONS
PINAL COUNTY, ARIZONA

Johnson Utilities

DESIGNED:	LWH
DRAWN:	LWH
CHECKED:	WCW
DATE:	06-16-15
SCALE:	AS NOTED
PROJECT #:	111024-A-015
FILE:	024A-Water-

SHEET

SHEET : 1
OF : 5

N:\111024\Hunt Highway Force Main\Phase 3 – Phoenix\111024A-015 Johnson Utility Relocation\Cutsheets\Water\024A-Water-01.dwg Plotted: Aug 27,2015

GENERAL NOTES:

1. ALL MATERIALS, CONSTRUCTION & METHODS SHALL CONFORM TO THE LATEST ADDITION MAG STANDARD SPECIFICATIONS AND PINAL COUNTY SUBDIVISION REGULATIONS & REQUIREMENTS AND MINIMUM STANDARDS FOR SUBDIVISION STREET PAVING.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EXCAVATION AND DIRT MOVING PERMIT FROM THE COUNTY HEALTH DEPARTMENT, AND FOR COMPLYING WITH ITS REQUIREMENTS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL ABANDONED (RETIRED) UTILITIES THAT INTERFERE WITH THIS CONSTRUCTION PROJECT.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE RELOCATION OF ALL UTILITIES, POWER POLES, ETC.
5. CONTRACTORS SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL ORDINANCES INCLUDING PINAL COUNTY SPECIFICATIONS AND MAG SPECIFICATIONS.
6. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR EPA NPDES PERMIT OR OTHER APPLICABLE PERMITS AND REQUIREMENTS BY FEDERAL REGULATORY AGENCIES; INCLUDING, BUT NOT LIMITED TO, THE U.S. ARMY CORPS OF ENGINEERS.
7. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AT HIS OWN EXPENSE ALL PERMITS REQUIRED FOR THIS PROJECT FROM THE APPROPRIATE AGENCIES.
8. CONTRACTOR TO ARRANGE FOR IRRIGATION DRY-UPS, RESETS AND REMOVALS BY OTHERS.
9. CLEAR AND GRUB CONSTRUCTION LIMITS PRIOR TO TRENCHING AND WATERLINE CONSTRUCTION.
10. JOHNSON UTILITIES, INC. SHALL OBTAIN A PINAL COUNTY RIGHT OF WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT OF WAY.
11. EXISTING UTILITIES ARE SHOWN FROM BEST AVAILABLE RECORDS. CONTRACTOR SHALL LOCATE AND POTHOLE IN THE AREA OF KNOWN EXISTING UTILITIES TO VERIFY SIZE, LOCATION, AND TYPE PRIOR TO PERFORMING ANY WORK. CONTRACTOR SHALL ADEQUATELY PROTECT AND MAINTAIN ALL EXISTING UTILITIES. ANY UTILITY (WHETHER SHOWN OR NOT) DAMAGED DUE TO CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY. ANY EXISTING FIRE HYDRANTS, MANHOLES, ETC., TO BE RAISED OR LOWERED SHALL BE DONE SO BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ANY EXISTING FENCES, DRIVEWAYS, ETC., DAMAGED OR REMOVED BY HIM DURING CONSTRUCTION. ALL OFF-SITE DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION IMMEDIATELY.
12. THE WLB GROUP, INC. IS NOT RESPONSIBLE FOR THE CONTRACTOR'S UTILIZATION OF MEN, MATERIALS, EQUIPMENT OR SAFETY MEASURES IN PERFORMANCE OF ANY WORK FOR THIS CONSTRUCTION. THE CONTRACTOR SHALL FURNISH ALL OF THESE ITEMS TO PERFORM ALL WORK, INCLUDING RESTORATION FOR THE COMPLETED INSTALLATION OF THE UTILITY SYSTEMS AND ALL OTHER IMPROVEMENTS SHOWN OR IMPLIED, AS NECESSARY FOR THE COMPLETED FACILITY READY FOR USE. THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR PERFORMING THE WORK CORRECTLY AND IN CONFORMANCE WITH ALL CODE REQUIREMENTS.
13. ALL WATER LINES SHALL CONFORM TO JOHNSON UTILITIES, L.L.C. WATER SERVICE CO. STD. SPEC'S.
14. WHEN REMOVING EXISTING CURB, GUTTER, OR SIDEWALK, REMOVE TO NEAREST JOINT, AT DISCRETION OF COUNTY INSPECTOR.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING SILT AND DEBRIS OUT OF THE WATER SYSTEM DURING CONSTRUCTION AND SHALL CLEAN AND DISINFECT THE SYSTEM THOROUGHLY PRIOR TO FINAL ACCEPTANCE.
16. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.
17. THE COUNTY ENGINEER AND JOHNSON UTILITIES, L.L.C. WATER SERVICE COMPANY SHALL BE NOTIFIED 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION.
18. WORK PERFORMED WITHOUT THE APPROVAL OF THE COUNTY ENGINEER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
19. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS.
20. THE CONTRACTOR SHALL KEEP SUITABLE EQUIPMENT ON HAND AT THE JOB SITE FOR MAINTENANCE OF DUST CONTROL AND SHALL CONTROL DUST AS DIRECTED BY THE APPROPRIATE AGENCIES.
21. THE QUANTITIES SHOWN ARE ARE AN ESTIMATE OF THE ENGINEER. THE CONTRACTOR SHALL MAKE HIS OWN INDEPENDENT ESTIMATE OF QUANTITIES AND BASE HIS BID THEREON.
22. THE CONTRACTOR IS REQUIRED TO CONTACT BLUE STAKE 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT 1 (800) 783-5348 AND IS RESPONSIBLE FOR BLUE STAKE MARKING DAILY AS CONSTRUCTION IS IN PROGRESS.
23. ALL OBSTRUCTIONS WITHIN THE RIGHT OF WAY SHALL BE REMOVED PRIOR TO ANY CONSTRUCTION.
24. ALL DRY UTILITIES MUST BE LOCATED ON THE OPPOSITE SIDE OF THE STREET AS THE WATER.
25. ALL TEMPORARY FACILITIES SHALL BE REMOVED PRIOR TO FINAL ACCEPTANCE BY OWNER.
26. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION.
27. CONTRACTOR SHALL PROVIDE FOG SEAL COAT FOR ALL NEWLY CONSTRUCTED STREETS IN ACCORDANCE WITH MAG SPECIFICATIONS.
28. CONTRACTOR SHALL NOTIFY DEVELOPER AT LEAST 48 HOURS IN ADVANCE FOR ANY STAKING OR RESTAKING REQUIRED.
29. THE ENGINEER DOES NOT ASSUME ANY LIABILITY FOR ERRORS OF LINE AND/OR GRADE ON ANY STAKING WHICH HAS BEEN DISTURBED IN ANY WAY, NOR DOES THE ENGINEER ASSUME ANY LIABILITY FOR ERRORS OF LINE AND/OR GRADE ON ANY STAKING THAT HAS BEEN IN PLACE FOR A PERIOD OF 24 HOURS OR MORE WITHOUT THE COMMENCEMENT OF CONSTRUCTION FOR WHICH IT WAS SET.
30. THE CONTRACTOR SHALL NOTIFY THE WLB GROUP, INC. AND PINAL COUNTY BEFORE BACKFILLING WATER MAIN IN ORDER THAT THE ENGINEER MAY VERIFY THE AS-BUILT LOCATION OF THE MAIN.
31. ANY QUESTIONS RELATIVE TO THE ACCURACY OF IMPROVEMENT INSTALLATION SHALL NOT BE RAISED SUBSEQUENT TO COMPLETION OF THE WORK UNLESS ALL SURVEY STAKES ARE MAINTAINED INTACT. SHOULD SUCH STAKES NOT BE PRESENT AND VERIFIED AS TO THEIR ORIGIN, NO CLAIM FOR ADDITIONAL COMPENSATION FOR CORRECTION SHALL BE PRESENTED TO ANY PARTY AND SUCH WORK SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
32. TRAFFIC CONTROL AND BARRICADING SHALL BE ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR PINAL COUNTY REQUIREMENTS. CONTRACTOR TO SUPPLY LIGHTED BARRICADES AT 50' INTERVALS WITH OPEN TRENCH SIGNAGE.
33. NO TRENCH TO BE OPEN "UNCOVERED" AFTER WORKING HOURS.
34. ALL RESIDENTS TO BE NOTIFIED IN PERSON 24 HOURS PRIOR TO DRIVEWAY CROSSING.

PINAL COUNTY NOTES:

1. DEVELOPER SHALL OBTAIN A PINAL COUNTY RIGHT OF WAY USE PERMIT PRIOR TO ANY WORK BEING PERFORMED WITHIN THE COUNTY RIGHT-OF-WAY. CONCTACT PINAL COUNTY PUBLIC WORKS INSPECTION SECTION AT LEAST SEVEN (7) WORKING DAYS PRIOR TO WORK.
2. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THESE PLANS SHALL BE IN ACCORDANCE WITH MAG STANDARD SPECIFICATIONS AND DETAILS.
3. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINISHED GRADE PRIOR TO COMPLETION OF CONSTRUCTION. (IF LOCATED OUTSIDE OF PAVEMENT SECTION, PREFER LEVEL WITH FINISHED GRADE, BUT ALLOW 6" MAX ABOVE FINISHED GRADE.)
4. CONTRACTOR IS RESPONSIBLE FOR BLUE STAKE MARKING AS CONSTRUCTION IS IN PROGRESS.
5. ALL RESIDENTS TO BE NOTIFIED IN PERSON 24 HOURS PRIOR TO DRIVEWAY CROSSING.
6. TRAFFIC CONTROL AND BARRICADING SHALL BE ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR PINAL COUNTY REQUIREMENTS.
7. ANY WORK ON ARTERIAL OR COLLECTOR ROADS SHALL REQUIRE AN OFF-DUTY PINAL COUNTY SHERIFF'S OFFICER FOR TRAFFIC CONTROL. CONTACT SHALL BE MADE THROUGH THE PCSO REPRESENTATIVE.
8. NO TRENCH TO BE LEFT OPEN/UNCOVERED AFTER WORKING HOURS UNLESS PROPERLY SIGNED AND BARRICADED PER THE APPROVED TRAFFIC CONTROL PLAN.
9. TRENCH EXCAVATION, BACK FILLING AND COMPACTION SHALL BE PER MAG STANDARD SPECIFICATIONS SECTION 601. BEDDING SHALL BE SPECIFICALLY PER MAG STANDARD SPECIFICATIONS 601.4.2 AND 601.4.6.

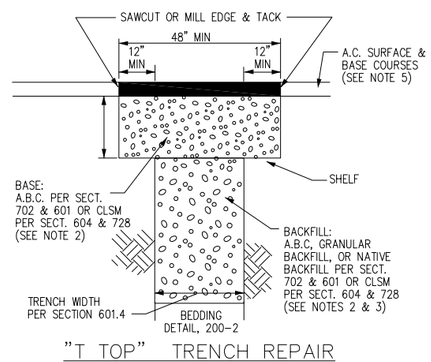
ADEQ NOTES:

1. ALL PIPE, FITTINGS, VALVES, FIRE HYDRANTS, ETC. SHALL CONFORM TO NSF STANDARD 61.
2. PVC PIPES WILL BE NSF APPROVED FOR POTABLE WATER USE. (NSF-PWSEAL)
3. CONTRACTOR TO MAINTAIN MIN 3' COVER OVER ALL WATER LINES.
4. DEAD ENDS MUST HAVE BLOW-OFF VALVES (MIN. DIAMETER = 2")
5. AIR AND VACUUM RELIEF VALVES WILL BE INSTALLED FOR PRESSURE > 100 PSI.
6. WATER AND SEWER LINES SHALL BE SEPARATED IN ACCORDANCE WITH AAC R18-5-502.C.
7. ALL WATER LINES MUST BE DISINFECTED PER BULLETIN 8 OR AWWA C651-86.
8. PRESSURE TESTING OF WATER LINES WILL CONFORM TO AWWA C605-94.
9. BACKFILL SHALL BE MINIMUM OF THREE (3) FEET IN DEPTH AND MUST MEET THE REQUIREMENTS OF AAC R18-9-E301.D.2.h.i.

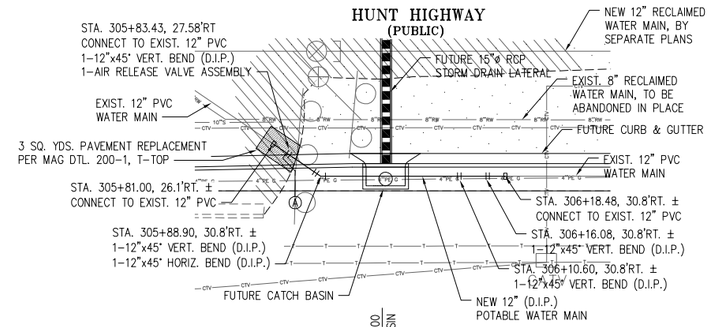
NOTE:
1. STATIONING IS ALONG CENTERLINE OF HUNT HIGHWAY UNLESS OTHERWISE NOTED.
2. ALL AREAS DISTURBED AS A RESULT OF WATER MAIN CONSTRUCTION TO BE REPLACED IN KIND.
3. EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON INFORMATION FROM PINAL COUNTY PROVIDED PLANS, POTHOLE RESULTS AND FROM THE RECORDS OF JOHNSON UTILITIES. THE CONTRACTOR SHALL POTHOLE AND VERIFY EXACT LOCATION AND DEPTH PRIOR TO CONSTRUCTION AND NOTIFY JOHNSON UTILITIES OF ANY CONFLICTS.

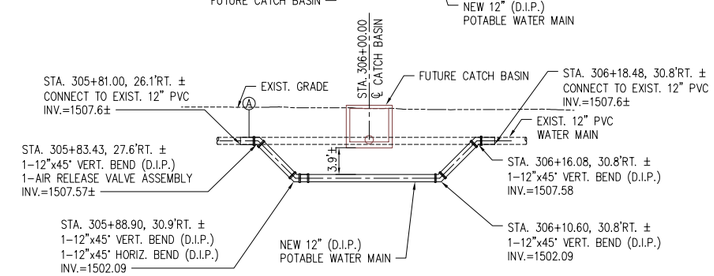
WATER CONSTRUCTION QUANTITIES

NO.	ITEM	QUANTITY	UNIT
1	12" D.I.P. WATER LINE	345	LF
2	PAVEMENT REPLACEMENT PER MAG DTL. 200-1, T-TOP	3	SY
3	AIR RELEASE VALVE	11	EA
4	12"x45° BEND (D.I.P.)	45	EA
5	SOLID SLEEVE RESTRAINED JOINT COUPLING	22	EA

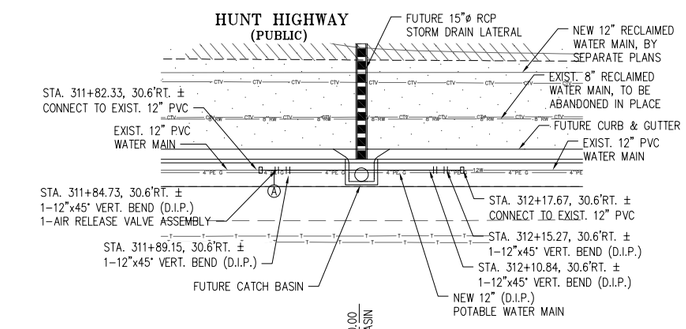


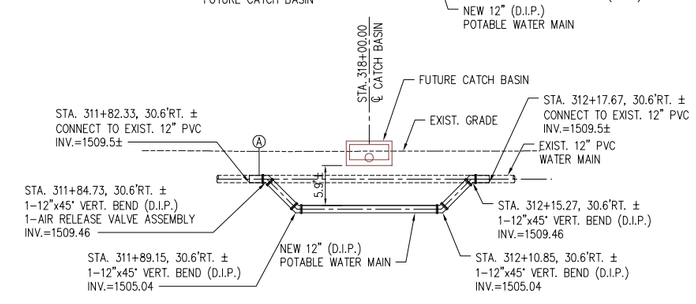
"T TOP" TRENCH REPAIR
(REFERENCE MAG STD. DTL. 200-1)





(A) 12" WATER MAIN ADJUSTMENT
STA. 306+00
SCALE: 1"=10'





(B) 12" WATER MAIN ADJUSTMENT
STA. 312+00
SCALE: 1"=10'

Call at least two full working days before you begin excavation.
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NO.	REVISION	BY	DATE

SEAL

Registered Professional Engineer (Civil)
CERTIFICATE NO. 36234
DAVID W. LITTLE
Date Signed 8.27.15
ARIZONA U.S.A.
EXPIRES 6/30/2016

JOHNSON UTILITIES
HUNT HIGHWAY
UTILITY IMPROVEMENTS

12" POTABLE WATER
TRANSMISSION MAIN ALTERATIONS
PINAL COUNTY, ARIZONA

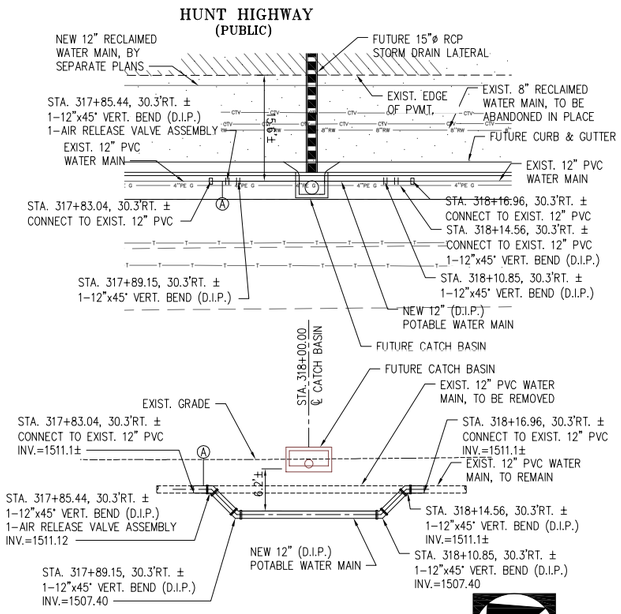
Johnson Utilities

DESIGNED:	LWH
DRAWN:	LWH
CHECKED:	WGW
DATE:	06-16-15
SCALE:	H:1"=10', V:1"=10'
PROJECT #:	111024-A-015
FILE:	024A-Water-2

SHEET

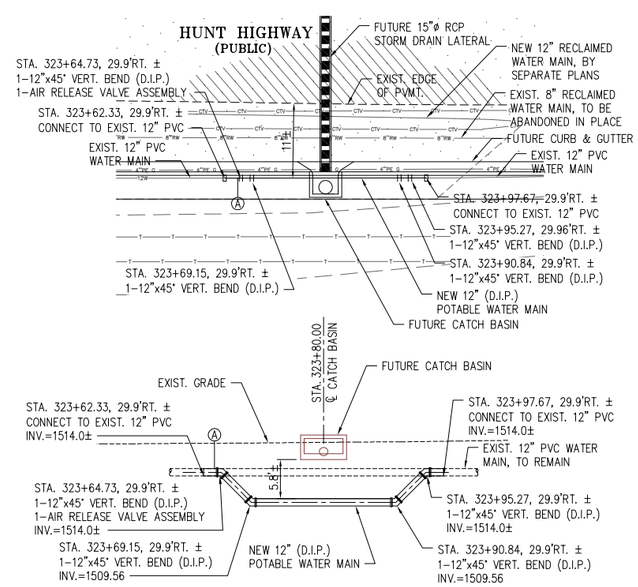
SHEET : 2
OF : 5

N:\111024\Hunt Highway Force Main\Phase 3 - Phoenix\111024A-015 Johnson Utility Relocation\Cutsheets\Water\024A-Water-02.dwg Plotted: Aug 27,2015



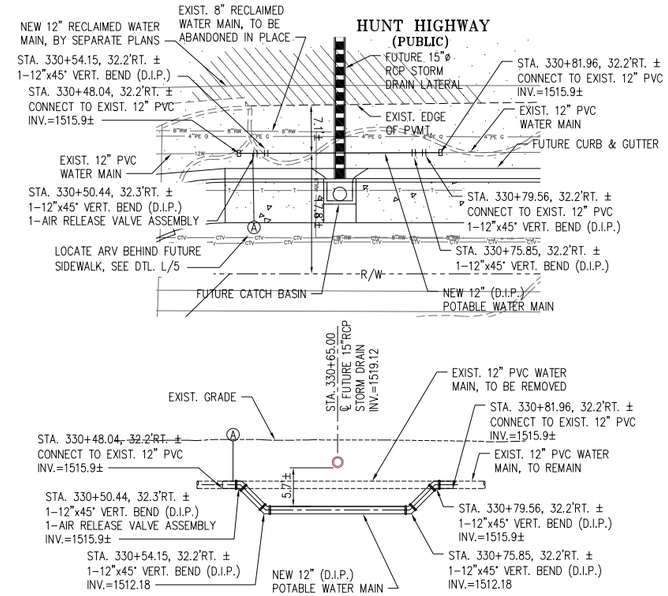
(C) 12" WATER MAIN ADJUSTMENT
STA. 318+00

SCALE: 1"=10'



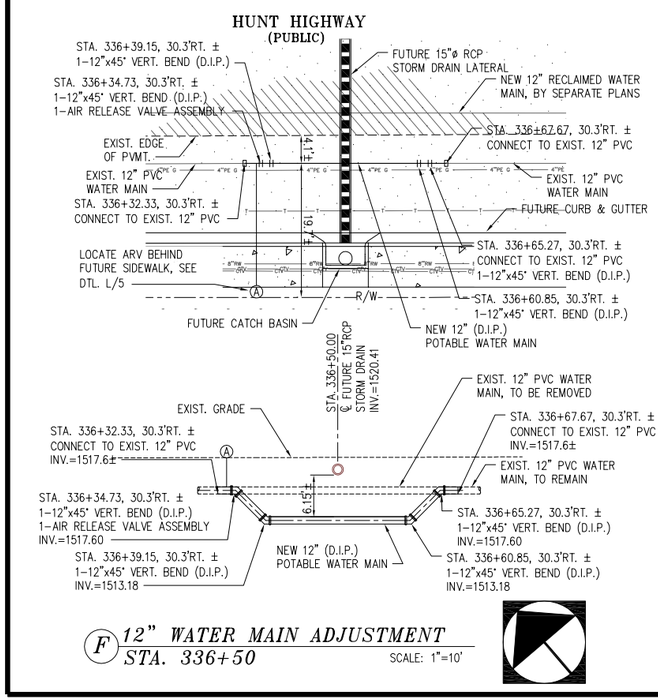
(D) 12" WATER MAIN ADJUSTMENT
STA. 323+80

SCALE: 1"=10'



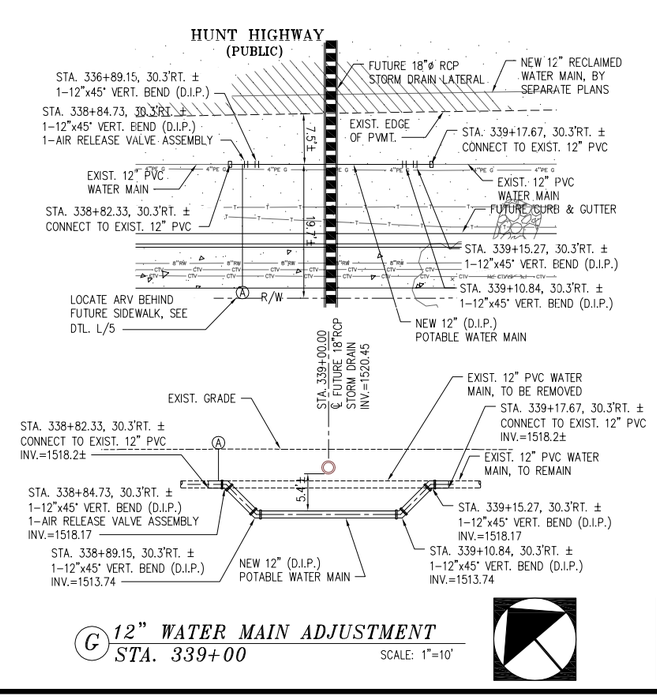
(E) 12" WATER MAIN ADJUSTMENT
STA. 330+65.50

SCALE: 1"=10'



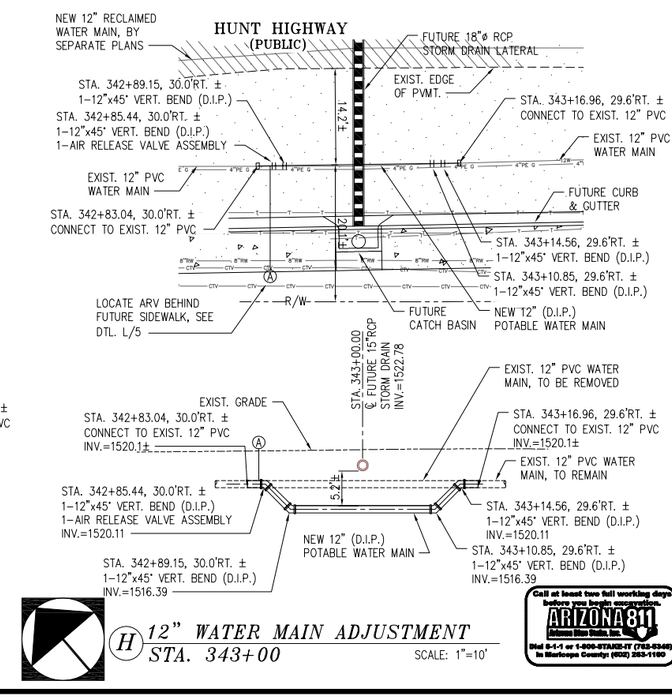
(F) 12" WATER MAIN ADJUSTMENT
STA. 336+50

SCALE: 1"=10'



(G) 12" WATER MAIN ADJUSTMENT
STA. 339+00

SCALE: 1"=10'



(H) 12" WATER MAIN ADJUSTMENT
STA. 343+00

SCALE: 1"=10'

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NO.	REVISION	BY	DATE

SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 36234
DAVID W. LITTLE
Date Signed 6-27-15
ARIZONA U.S.A.
EXPIRES 6/30/2016

Johnson Utilities

JOHNSON UTILITIES
HUNT HIGHWAY
UTILITY IMPROVEMENTS

12" POTABLE WATER
TRANSMISSION MAIN ALTERATIONS

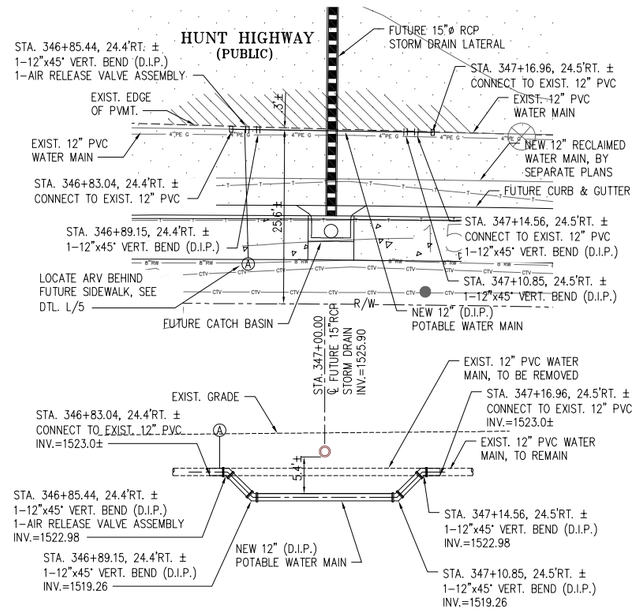
PINAL COUNTY, ARIZONA

DESIGNED: LWH
DRAWN: LWH
CHECKED: WCW
DATE: 06-16-15
SCALE: H:1"=10', V:1"=10'
PROJECT #: 111024-A-015
FILE: 024A-Water3-

SHEET

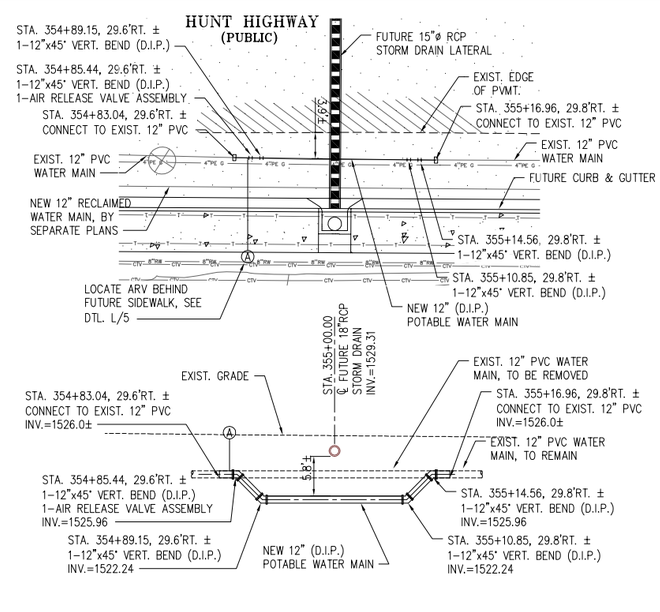
SHEET : 3
OF : 5

N:\111024\Hunt Highway Force Main\Phase 3 - Phoenix\111024A-015 Johnson Utility Relocation\Cutsheets\Water\024A-Water-02.dwg Plotted: Aug 27,2015



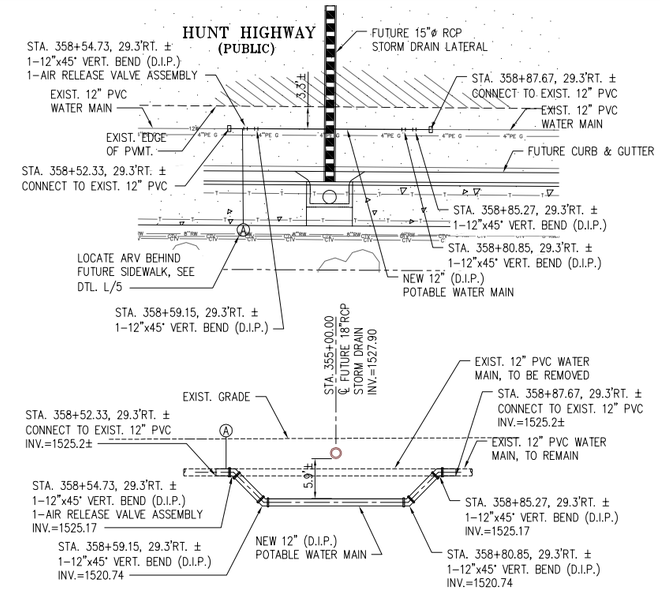
(I) 12" WATER MAIN ADJUSTMENT
STA. 347+00

SCALE: 1"=10'



(J) 12" WATER MAIN ADJUSTMENT
STA. 355+00

SCALE: 1"=10'



(K) 12" WATER MAIN ADJUSTMENT
STA. 358+70

SCALE: 1"=10'

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NO.	REVISION	BY	DATE

SEAL

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 36234
DAVID W. LITTLE
Date Signed 8-27-15
ARIZONA U.S.A.

EXPIRES 6/30/2016

JOHNSON UTILITIES
HUNT HIGHWAY
UTILITY IMPROVEMENTS

12" POTABLE WATER
TRANSMISSION MAIN ALTERATIONS

PINAL COUNTY, ARIZONA

Johnson Utilities

DESIGNED:	LWH
DRAWN:	LWH
CHECKED:	WCW
DATE:	06-16-15
SCALE:	H:1"=10', V:1"=10
PROJECT #:	111024-A-015
FILE:	024A-Water-3

SHEET

SHEET : 4
OF : 5

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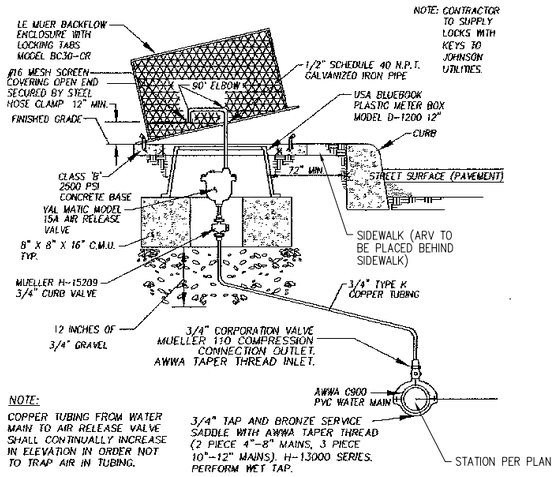
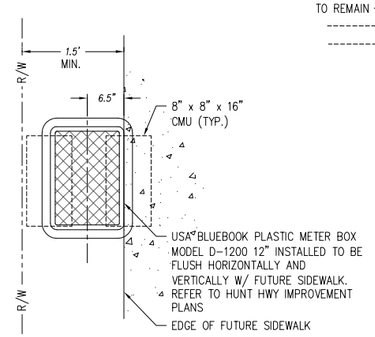


NOTE:
COPPER TUBING FROM WATER MAIN TO AIR RELEASE VALVE SHALL CONTINUALLY INCREASE IN ELEVATION IN ORDER NOT TO TRAP AIR IN TUBING.

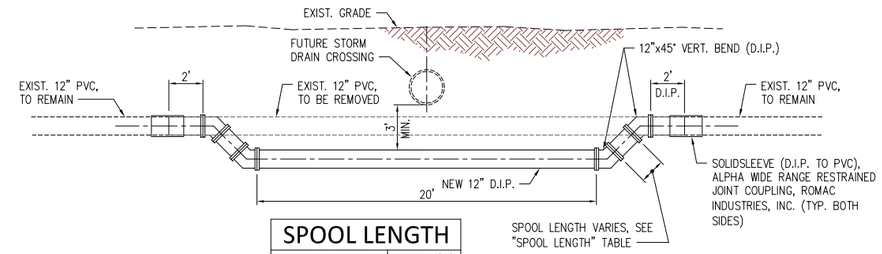
AIR RELEASE VALVE INSTALLATION DETAIL

(OR APPROVED EQUAL)



(L) AIR RELEASE VALVE BOX BEHIND FUTURE SIDEWALK

NO SCALE



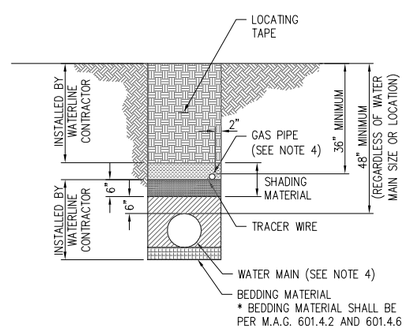
SPOOL LENGTH	
CROSSING STATION	LENGTH (IN)
306+00	6.5'
312+00	5'
318+00	4'
323+80	5'
330+65	4'
336+50	5'
339+00	5'
343+00	4'
347+00	4'
355+00	4'
358+70	5'

NOTE:
ALL WATER MAIN ADJUSTMENT DETAILS A-K SHALL COMPLY WITH MAG STANDARD DETAIL NO. 370

(M) TYPICAL WATER LINE ASSEMBLY

NO SCALE

NOTES:
1. GAS PIPE SHALL HAVE A MINIMUM 36" COVER AS MEASURED FROM WHICHEVER IS LOWER, FINISHED GRADE OF PAVEMENT OR NATURAL GROUND, UNLESS OTHERWISE NOTED. "BLUE TOPS" MAY BE REQUESTED TO VERIFY COVER.
2. AFTER THE WATER MAIN HAS BEEN INSTALLED, THE WATER LINE CONTRACTOR SHALL INSTALL SHADING MATERIAL, PROVIDE A LEVEL UNIFORM BEARING SURFACE FOR THE INSTALLATION OF THE GAS PIPE. THE GAS LINE CONTRACTOR WILL FURNISH AND INSTALL THE GAS PIPE AND TRACER WIRE AFTER THE WATER MAIN HAS BEEN INSTALLED.
3. SHADING MATERIAL ADJACENT TO THE GAS PIPE SHALL BE SELECT SANDY TYPE SOIL FREE OF ROCKS OR DEBRIS THAT WILL PASS THROUGH A 3/8" SCREEN AS INSPECTED AND APPROVED BY THE GAS LINE AGENCY INSPECTION PERSONNEL. THE GAS LINE CONTRACTOR SHALL FURNISH ALL SHADING MATERIAL, FROM THE BOTTOM OF THE OF THE GAS PIPE TO 6" ABOVE THE TOP OF THE GAS PIPE.
4. SEE CONSTRUCTION PLANS FOR WATER MAIN AND GAS PIPE SIZES.
5. WHERE WATER AND GAS ARE INSTALLED IN A JOINT TRENCH, THE WATER LINE CONTRACTOR SHALL ADJUST BOTH THE WATER AND GAS VALVE HOUSING BOXES TO FINISHED GRADE ACCORDING TO APPLICABLE STANDARD DETAIL. ALSO, MAINTAIN ALL NECESSARY BARRICADING, STEEL PLATING AND TRENCH SHORING REQUIRED DURING GAS INSTALLATION.
6. THE WATERLINE CONTRACTOR SHALL COMPLETE ALL BACKFILL TO FINISHED GRADE AFTER THE GAS PIPE INSTALLATION IS COMPLETED. TRENCH EXCAVATION, BACKFILLING AND COMPACTION SHALL PER PER M.A.G. STANDARD SPECIFICATIONS 601.4.2. AND 601.4.6 WITH THE EXCEPTION OF WHERE NOTE 3 APPLIES.
7. A MINIMUM OF 12" OF SEPARATION SHALL BE MAINTAINED BETWEEN GAS PIPE , WATER MAIN AND OTHER UNDERGROUND FACILITIES WHEN OVERCROSSING OR UNDERCROSSING.



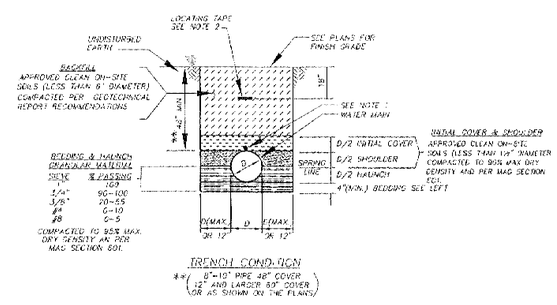
NOTE:
SEE "WATER PIPE TRENCH DETAIL" FOR ADDITIONAL WATER LINE TRENCH REQUIREMENTS

JOINT USE WATER AND GAS TRENCH DETAIL

REFERENCE "MODIFIED CITY OF MESA DETAIL M-58 FOR PINAL COUNTY"

TRENCH NOTES:

1. BLUE INSULATED COPPER WIRE (NO. 12 A.W.G.) REQUIRED DIRECTLY ON TOP OF WATER PIPE & TAPED EVERY OTHER JOINT WITH DUCT TAPE. WIRE TO BE LOCATED WITHIN MAINLINE & FIRE HYDRANT TRENCHES. INCLUDING UP THE FIRE HYDRANT BARREL AND LOOPED COMPLETELY ON CLAMPED JUST ABOVE ITS BASE. WIRE SHALL ALSO BE INSTALLED AT VALVE BOXES.
2. 2" WATERLINE NON-METALLIC WARNING TAPE WITHIN 12"-18" OF FINISHED GRADE WITHIN MAINLINE & SERVICE TRENCHES. ALL TAPE ENDS ARE TO BE TIED ON OVERLAPPED TO FORM ONE CONTINUOUS TAPE.
3. WHENEVER ROCK IS ENCOUNTERED IN TRENCH BOTTOM OVEREXCAVATION SHALL BE REQUIRED TO A MIN. OF 6" DEPTH BELOW O.D. OF PIPE AND REPLACED WITH 3/4" MINUS GRANULAR MATERIAL.
4. MINIMUM COVER SHALL BE MEASURED FROM THE EXISTING OR PROPOSED GRADE OF PAVEMENT, OR FROM NATURAL GROUND, WHICHEVER IS DEEPER.
5. CONTRACTOR SHALL CONFORM TO ALL OSHA STANDARDS AND REGULATIONS FOR TRENCH EXCAVATION AND PIPELINE INSTALLATION.
5. PIPE BEDDING MATERIAL SHALL BE SELECT NATIVE MATERIAL MEETING 3/4" MINUS GRADATION.



TRENCH CONDITION
** (8"-10" PIPE 48" COVER, 12" AND LARGER 60" COVER OR AS SHOWN ON THE PLANS)

WATER PIPE TRENCH DETAIL

(OR APPROVED EQUAL)
N.T.S.

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