

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

WATER LINE GENERAL NOTES

- ALL WATER LINE CONSTRUCTION HEREON TO BE IN ACCORDANCE WITH YUMA COUNTY STANDARDS AND SPECIFICATIONS AND THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FURNISHING TO THE ENGINEER OF "AS-BUILT" RECORD DRAWINGS. THE CONTRACTOR SHALL OBTAIN ONE SET OF PLANS FROM THE ENGINEER AND SHALL RECORD IN RED COLORED PENCIL ALL CASES WHERE ACTUAL FIELD CONSTRUCTION DIFFERS FROM WORK SHOWN ON THE PLANS, TO INCLUDE SERVICE LOCATIONS.
- ALL WATERLINES WILL BE PRESSURE AND LEAKAGE TESTED TO 150 PSI FOR 2 HOURS. SEE THIS SHEET FOR TEST PROCEDURE.
- WATER CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE BACTERIOLOGICAL TEST RESULTS TAKEN ON THE SYSTEM.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BLUE STAKE CENTER TO LOCATE ALL UNDERGROUND EQUIPMENT WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. CALL THE BLUE STAKE CENTER AT 1-800-782-5348. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES. PRIOR TO ANY CONSTRUCTION LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND INFORMATION ONLY.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO HIS OPERATIONS. ANY DAMAGE TO THE UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- DEFLECT 8" WATER LINE AS SHOWN. MAX. EXCEPTABLE DEFLECTION OF 8" PIPE PER STANDARD 20' LENGTH TO BE 9". NO DEFLECTION TO OCCUR AT JOINT.
- THE ENGINEER SHALL REVIEW ALL PIPE (WATER) MATERIAL SUBMITTALS TO ENSURE CONFORMANCE TO REQUIREMENTS BEFORE THE START OF CONSTRUCTION.
- ALL WATER LINES (MAINS AND SERVICES) SHALL INCLUDE THE INSTALLATION OF TRACER WIRE IN ACCORDANCE WITH STANDARD DETAIL No. 5-210.
- THE END OF EACH WATER LINE TO HAVE A TEMPORARY OR PERMANENT BLOWOFF VALVE, AS SHOWN IN PLANS.
- THE CONTRACTOR MUST COORDINATE CONSTRUCTION INSPECTION WITH THE ENGINEER.
- WATER/ SEWER LINES SEPARATION NEEDS TO BE IN ACCORDANCE WITH A.A.C.R18-4-502.C.

WATER LINE TESTING PROCEDURE

- ALL VISIBLE LEAKS SHALL BE REPAIRED REGARDLESS OF THE AMOUNT OF LEAKAGE AND REGARDLESS OF WHETHER THE LEAK DEVELOPS UNDER TEST PRESSURE OR LINE PRESSURE.
- INITIAL PRESSURES FOR BOTH THE PRESSURE TEST AND ALLOWABLE LEAKAGE TEST SHALL BE A MINIMUM OF 150 PSI
- A PRESSURE TEST WILL BE DEEMED AS SUCCESSFUL IF IT PASSES THE CRITERIA SET FORTH BY AWWA C-600, SEC. 94 (CURRENT EDITION) AND THAT CRITERIA NOTED ABOVE.
- SHOULD THE PRESSURE TEST BE UNSUCCESSFUL, THE CONTRACTOR HAS THE OPTION OF ATTEMPTING THE ALLOWABLE LEAKAGE TEST. THIS TEST WILL BE DEEMED SUCCESSFUL IF IT PASSES THE CRITERIA SET FORTH IN AWWA C-600, SECTION 94 (CURRENT EDITION) OR AWWA M-23 (CURRENT EDITION) WHICHEVER IS MORE RESTRICTIVE AND THAT CRITERIA NOTED ABOVE.
- DISINFECTION PROCEDURES FOR WATER LINES TO BE DONE AS PER AWWA C-605-94

ROAD CONSTRUCTION NOTES:

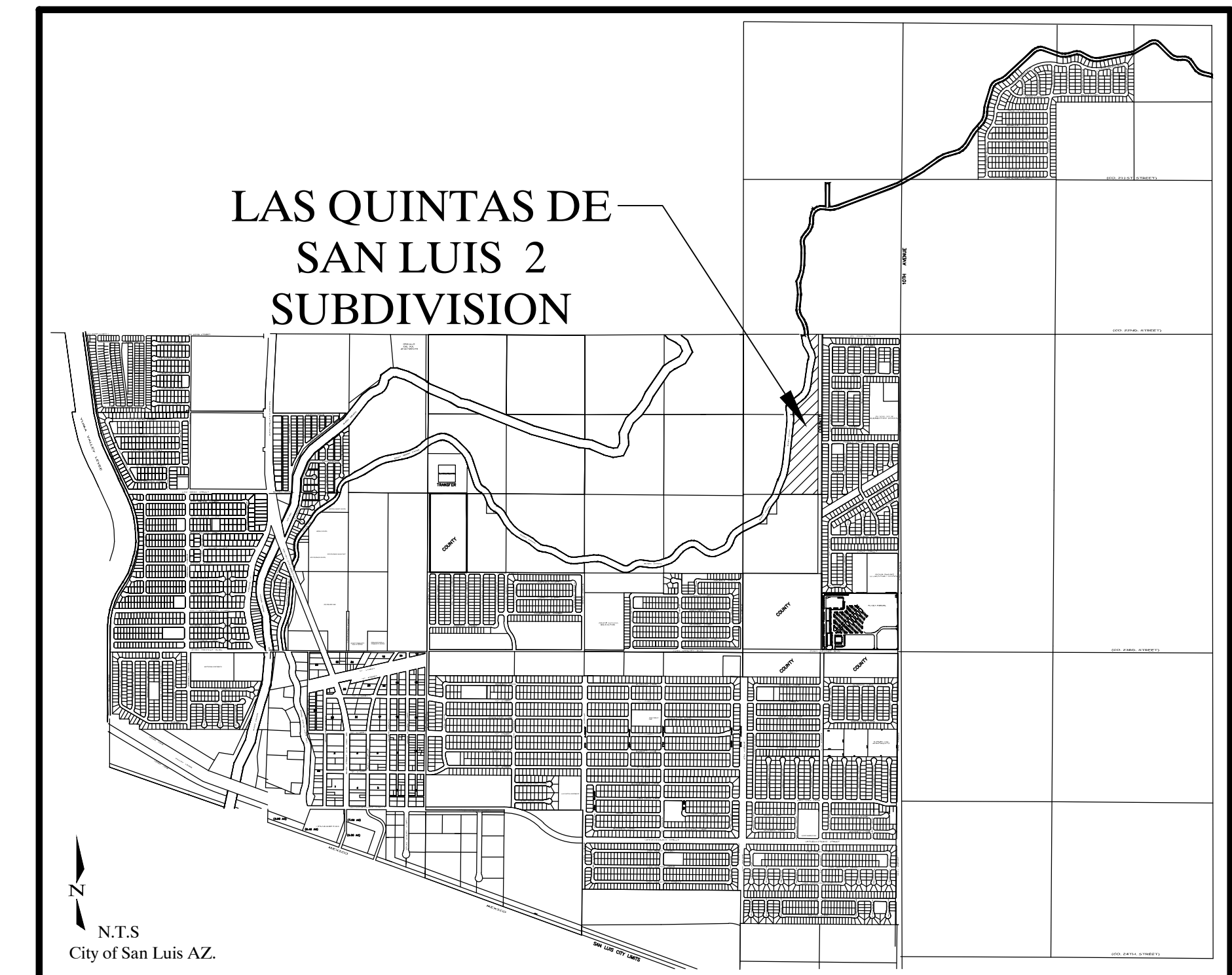
- ALL MATERIALS AND CONSTRUCTION HEREON SHALL CONFORM TO YUMA COUNTY, AS ADOPTED BY THE CITY OF SAN LUIS, STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS UNLESS OTHERWISE SHOWN ON THESE PLANS.
- ALL CITY OF SAN LUIS REQUIRED COMPACTION AND LABORATORY TESTS SHALL BE FURNISHED BY THE CONTRACTOR TO THE CITY OF SAN LUIS PRIOR TO ACCEPTANCE OF THE PROJECT.
- ALL DIMENSIONS HEREON ARE TO THE BACK OF CURB.
- CONTRACTOR TO MAINTAIN DUST ABATEMENT AT ALL TIMES DURING CONSTRUCTION.
- REFER TO SHEET 2 OF 3 AND 3 OF 3 OF FINAL PLAT FOR ALL CORRECT DIMENSIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BLUE STAKE CENTER TO LOCATE ALL UNDERGROUND EQUIPMENT WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. CALL THE BLUE STAKE CENTER AT 1-800-782-5348. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES. PRIOR TO ANY CONSTRUCTION LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND INFORMATION ONLY.
- ALL CURB CORNER RADIUS TO BE 25.0' TO BACK OF CURB UNLESS OTHERWISE NOTED.
- SEE SUBDIVISION PLAT FOR ALL BOUNDARY INFORMATION AND DIMENSIONS; DO NOT SCALE.

LEGEND

	BOUNDARY LINE
	CENTER LINE
	PROPERTY LINE
	LOT LINE
	SET MONUMENT (TYPE AS SHOWN)
	SET MONUMENT (TYPE AS SHOWN)
	EXISTING AC PAVEMENT
	NEW AC PAVEMENT
	NEW CONCRETE
	NEW CURB & GUTTER
	NEW SLOPED AREA
	LOT NUMBERS
	EXISTING ELEVATION
	EXISTING ASPHALT ELEVATION
	EXISTING CURB & GUTTER ELEVATION
	NEW CURB AND GUTTER ELEVATION
	NEW ASPHALT ELEVATION
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	NEW SEWER LINE
	NEW WATER MAIN
	NEW MANHOLE
	EXISTING MANHOLE
	INDICATES INVERT ELEVATION
	NEW DUAL WATER SERVICE
	NEW SINGLE WATER SERVICE
	NEW FIRE HYDRANT
	NEW GATE VALVE
	NEW TEMPORARY BLOWOFF
	NEW SEWER SERVICE
	NEW DUCTILE IRON PIPE

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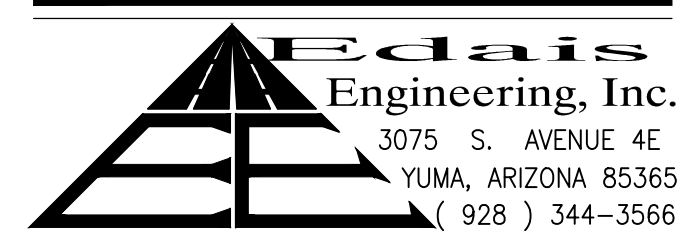


VICINITY MAP

OWNER/SUBDIVIDER

RIEDEL HOLDINGS, L.L.C.
P.O. BOX 1649
SAN LUIS, ARIZONA 85349

ENGINEER



BENCHMARK

TOP OF BRASS CAP LOCATED AT THE INTERSECTION OF CRISTINA STREET AND 10th AVENUE (LAS QUINTAS DE DE SAN LUIS SUBDIVISION) ASSUMED ELEVATION: 136.32

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

THESE PLANS NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED BY THE CITY, ADEQ, AND OTHER AGENCIES HAVING JURISDICTION ON THIS PROJECT

Naheh K. Edais
26844
NAJEH K. EDAIS
ARIZONA, U.S.A.

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LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
COVER SHEET

SCALE: AS SHOWN	DESIGNED BY: N.K.E.	CHECKED BY: N.K.E.
DATE: AUG 2016	DRAWN BY: STAFF	JOB No. 14-015

SHEET 00

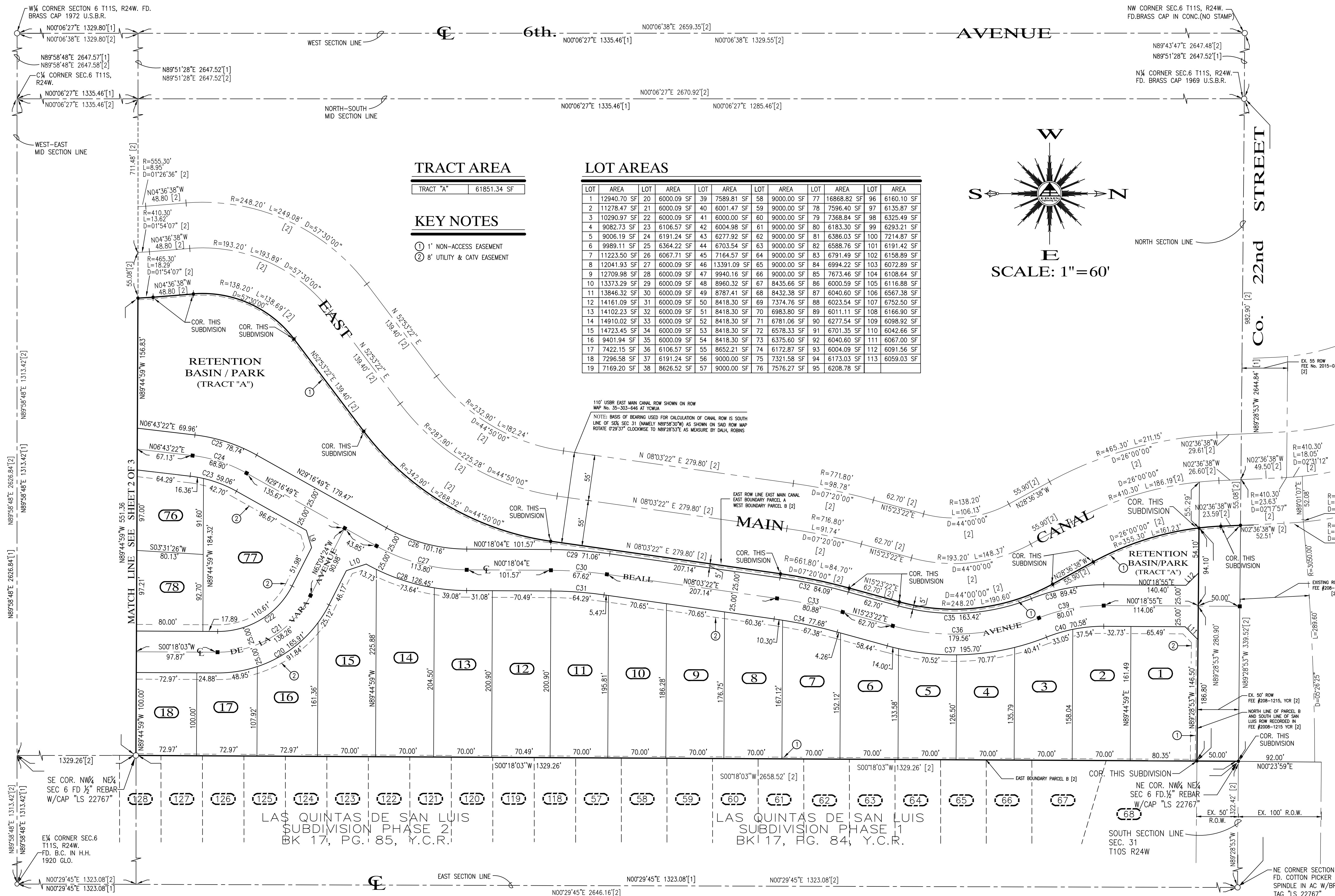
EDAIS Engineering, Inc.
3075 S. Ave. 4E Yuma, Arizona 85365
(928) 344-3566 FAX (928) 341-1075
EMAIL: EE@Edaisengineering.com

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

A SUBDIVISION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER LYING EAST MAIN CANAL AND PARCEL B OF THE BARKLEY LOT SPLIT No.2 AS RECORDED IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., BEING A PORTION OF GOVERNMENT LOT 2, ALSO BEING A PORTION OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, TOGETHER IN SECTION 6, TOWNSHIP 11 SOUTH, RANGE 24 WEST, GILA AND SALT RIVER BASE AND MERIDIAN, YUMA COUNTY, ARIZONA

DATE: JULY 2016 ACREAGE - 28.75 AC

TENTATIVE PLAT



TRACT AREA

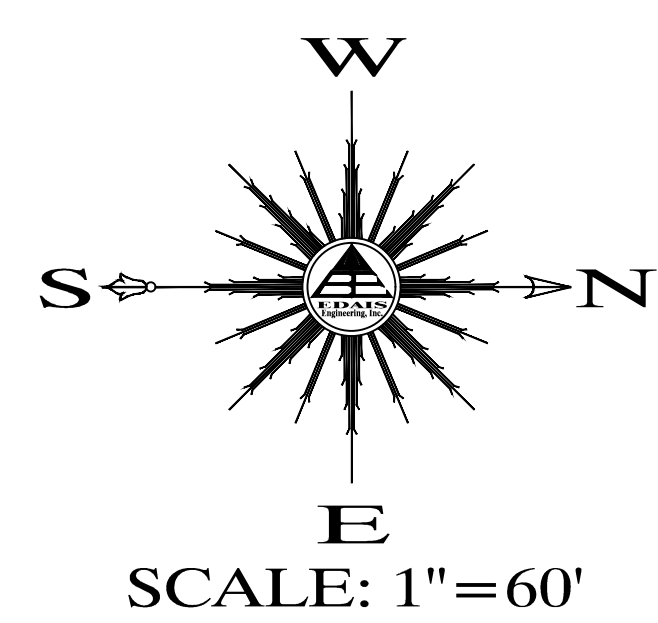
TRACT "A"	61851.34 SF
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KEY NOTES

- ① 1' NON-ACCESS EASEMENT
- ② 8' UTILITY & CATV EASEMENT

LOT AREAS

LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA
1	12940.70 SF	20	6000.09 SF	39	7589.81 SF	58	9000.00 SF	77	16868.82 SF	96	8160.10 SF				
2	11278.47 SF	21	6000.09 SF	40	6001.47 SF	59	9000.00 SF	78	7596.40 SF	97	8135.87 SF				
3	10290.97 SF	22	6000.09 SF	41	6000.00 SF	60	9000.00 SF	79	7368.84 SF	98	8325.49 SF				
4	9082.73 SF	23	6106.57 SF	42	6004.98 SF	61	9000.00 SF	80	6183.30 SF	99	8293.21 SF				
5	9006.19 SF	24	6191.24 SF	43	6277.92 SF	62	9000.00 SF	81	6386.03 SF	100	7214.87 SF				
6	9989.11 SF	25	6364.22 SF	44	6703.54 SF	63	9000.00 SF	82	6588.76 SF	101	6191.42 SF				
7	11223.50 SF	26	6067.71 SF	45	7164.57 SF	64	9000.00 SF	83	6791.49 SF	102	6158.89 SF				
8	12041.93 SF	27	6000.09 SF	46	13391.09 SF	65	9000.00 SF	84	6994.22 SF	103	8072.89 SF				
9	12709.98 SF	28	6000.09 SF	47	9940.16 SF	66	9000.00 SF	85	7673.46 SF	104	6108.64 SF				
10	13373.29 SF	29	6000.09 SF	48	8960.32 SF	67	8435.66 SF	86	6000.59 SF	105	6116.88 SF				
11	13846.32 SF	30	6000.09 SF	49	8787.41 SF	68	8432.38 SF	87	6040.60 SF	106	6567.38 SF				
12	14161.09 SF	31	6000.09 SF	50	8418.30 SF	69	7374.76 SF	88	6023.54 SF	107	6752.50 SF				
13	14102.23 SF	32	6000.09 SF	51	8418.30 SF	70	6983.80 SF	89	6011.11 SF	108	6166.90 SF				
14	14910.02 SF	33	6000.09 SF	52	8418.30 SF	71	6781.06 SF	90	6277.54 SF	109	6098.92 SF				
15	14723.45 SF	34	6000.09 SF	53	8418.30 SF	72	6578.33 SF	91	6701.35 SF	110	6042.66 SF				
16	9401.94 SF	35	6000.09 SF	54	8418.30 SF	73	6375.60 SF	92	6040.60 SF	111	6067.00 SF				
17	7422.15 SF	36	6106.57 SF	55	8652.21 SF	74	6172.87 SF	93	6004.09 SF	112	6091.56 SF				
18	7296.58 SF	37	6191.24 SF	56	9000.00 SF	75	7321.58 SF	94	6173.03 SF	113	6059.03 SF				
19	7169.20 SF	38	8626.52 SF	57	9000.00 SF	76	7576.27 SF	95	6208.78 SF						



LEGEND

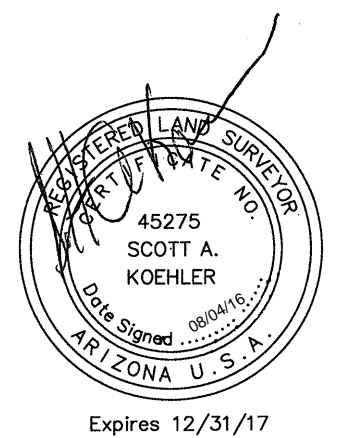
- CENTERLINE
- BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING LOTS
- NEW PROPERTY LINE
- FOUND MONUMENT (TYPE AS SHOWN)
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- NEW SUBDIVISION BOUNDARY MONUMENT PER YUMA COUNTY STD. No. 4-030
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- ([1]) DATA REFER TO BARKLEY PROPERTY - SAN LUIS, BOUNDARY SURVEY CONDUCTED BY DAHL, ROBINS & ASSOCIATES, INC. PROJECT No. 07076 SIGNED BY JUAN N. LOMELI DATED JULY 24, 2007.
- ([2]) DATA REFER TO BARKLEY LOT SPLIT No. 2 AS RECORDED IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., YUMA COUNTY, ARIZONA.
- NEW LOT NUMBER
- EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R.O. YUMA COUNTY RECORDER'S OFFICE

PREPARED BY:

Edais Engineering, Inc.
 3075 S. AVENUE 4 E
 YUMA, ARIZONA 85365
 (928) 344-3566

SURVEYOR'S CERTIFICATE

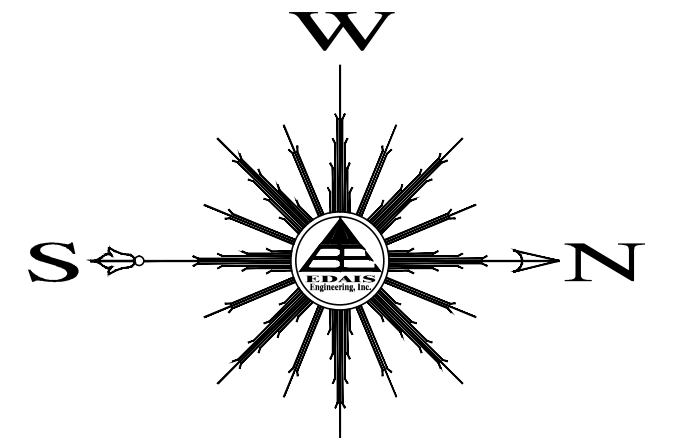
I HEREBY CERTIFY THAT I AM A LAND SURVEYOR LISTED ON THE ROSTER OF ACTIVE REGISTRANTS BY THE STATE BOARD OF TECHNICAL REGISTRATION OF ARIZONA AND THAT THIS PROJECT CONSISTING OF FOURTEEN (14) SHEETS CORRECTLY REPRESENTS A SURVEY MADE UNDER MY SUPERVISION DURING JULY 2016. THAT ALL MONUMENTS SHOWN HEREON ACTUALLY EXIST AND THEIR POSITIONS ARE CORRECTLY SHOWN.



10th.

AVENUE

SHEET 3 OF 3



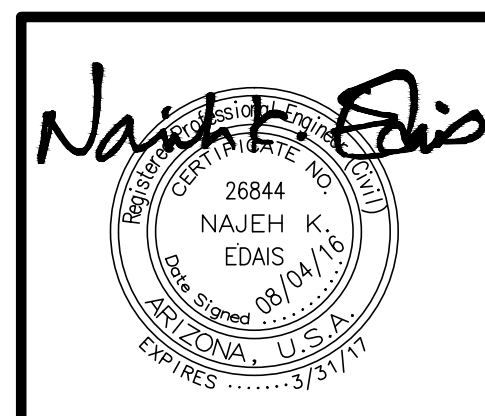
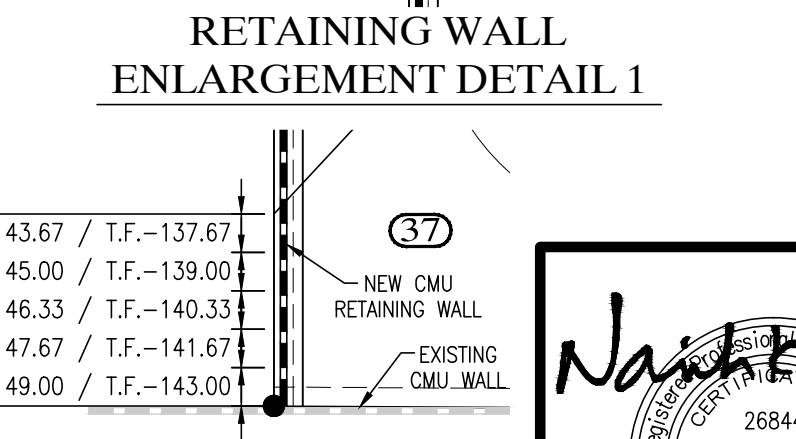
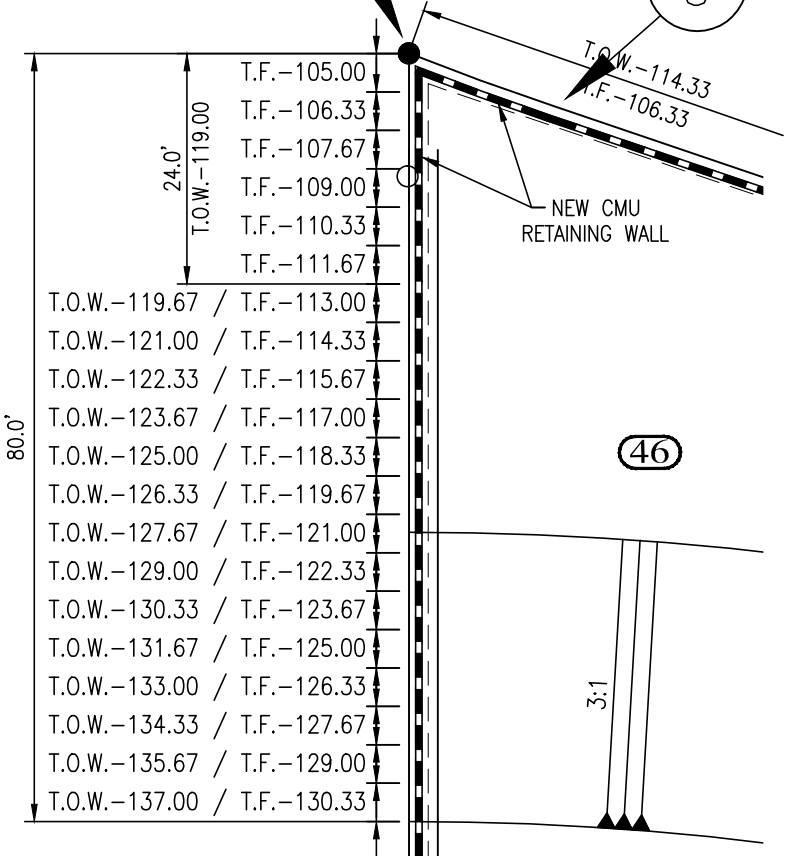
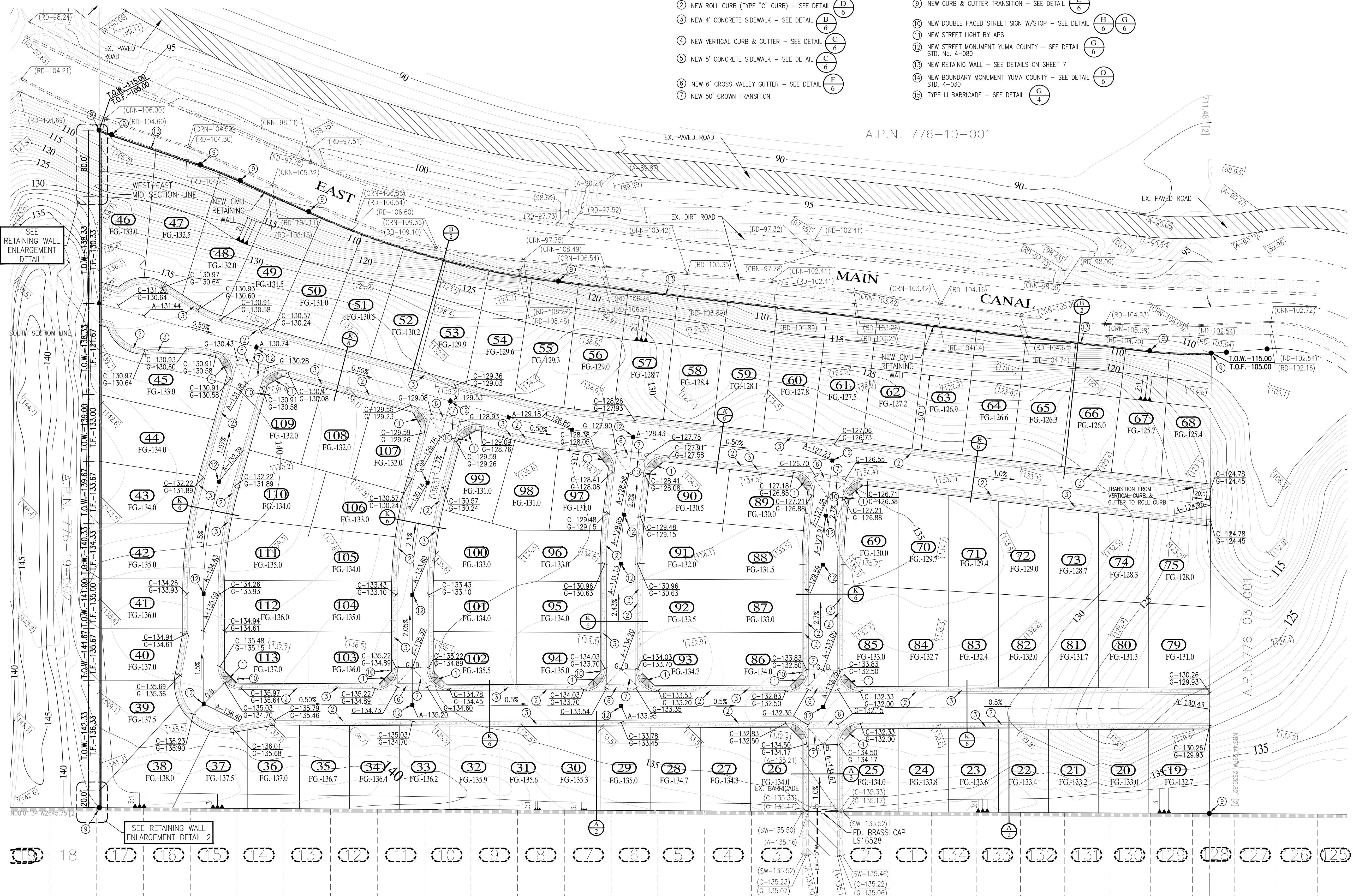
SCALE: 1"=60'

KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
- ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL (B/6)
- ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL (C/6)
- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (C/6)
- ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL (E/6)
- ⑦ NEW 50' CROWN TRANSITION
- ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (E/7)
- ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL (E/6)
- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6) (G/6)
- ⑪ NEW STREET LIGHT BY APS
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6) STD. No. 4-080
- ⑬ NEW RETAINING WALL - SEE DETAILS ON SHEET 7
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL (O/6) STD. 4-030
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)

LEGEND

- CENTERLINE
- BOUNDARY LINE
- EXISTING LOTS
- EXISTING CMU WALL
- EXISTING DIRT ROAD
- EXISTING ASPHALT
- NEW CMU WALL
- FOUND MONUMENT (TYPE AS SHOWN)
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- T.O.W. INDICATE TOP OF WALL ELEVATION
- T.F. INDICATE TOP OF FOOTING ELEVATION
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- (133.0) EXISTING NATURAL SOIL ELEVATION
- (A-90.00) EXISTING ASPHALT ELEVATION
- (RD-103.20) EXISTING ROAD ELEVATION
- (C-135.50) EXISTING CURB & GUTTER ELEVATION
- (SW-135.52) EXISTING SIDEWALK ELEVATION
- (CRN-106.86) EXISTING CROWN ELEVATION
- 120 CONTOUR LINE
- EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R. YUMA COUNTY RECORDER



OWNER
BARKLEY LIMITED AZ PARTNERSHIP
 101 E. SECOND STREET
 YUMA, ARIZONA 85364

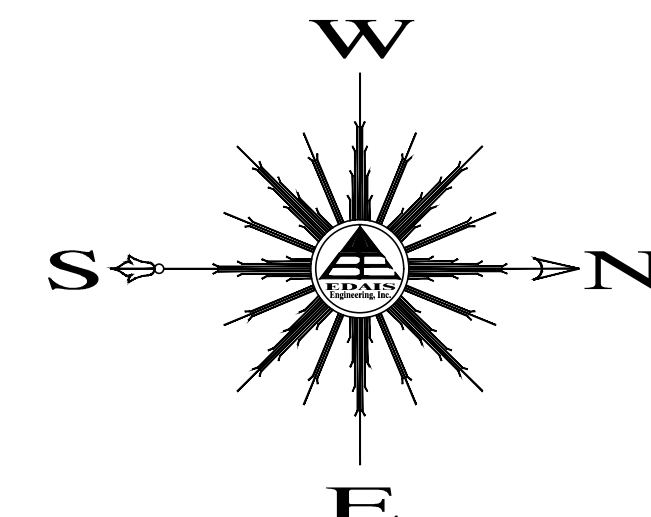
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
TENTATIVE PAVING & GRADING PLAN
 SCALE: AS SHOWN DESIGNED BY: NKE CHECKED BY: NKE
 DATE: AUG '16" DRAWN BY: STAFF JOB No. 14-015

Edais Engineering, Inc.
 263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)
 Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najeh@Edaisgroup.com

BIENESTAR ESTATES No. 7A BOOK 18, PAGE 11, Y.C.R.

LAS QUINTAS DE SAN LUIS SUBDIVISION PHASE 2 BK 17, PG. 85, Y.C.R.



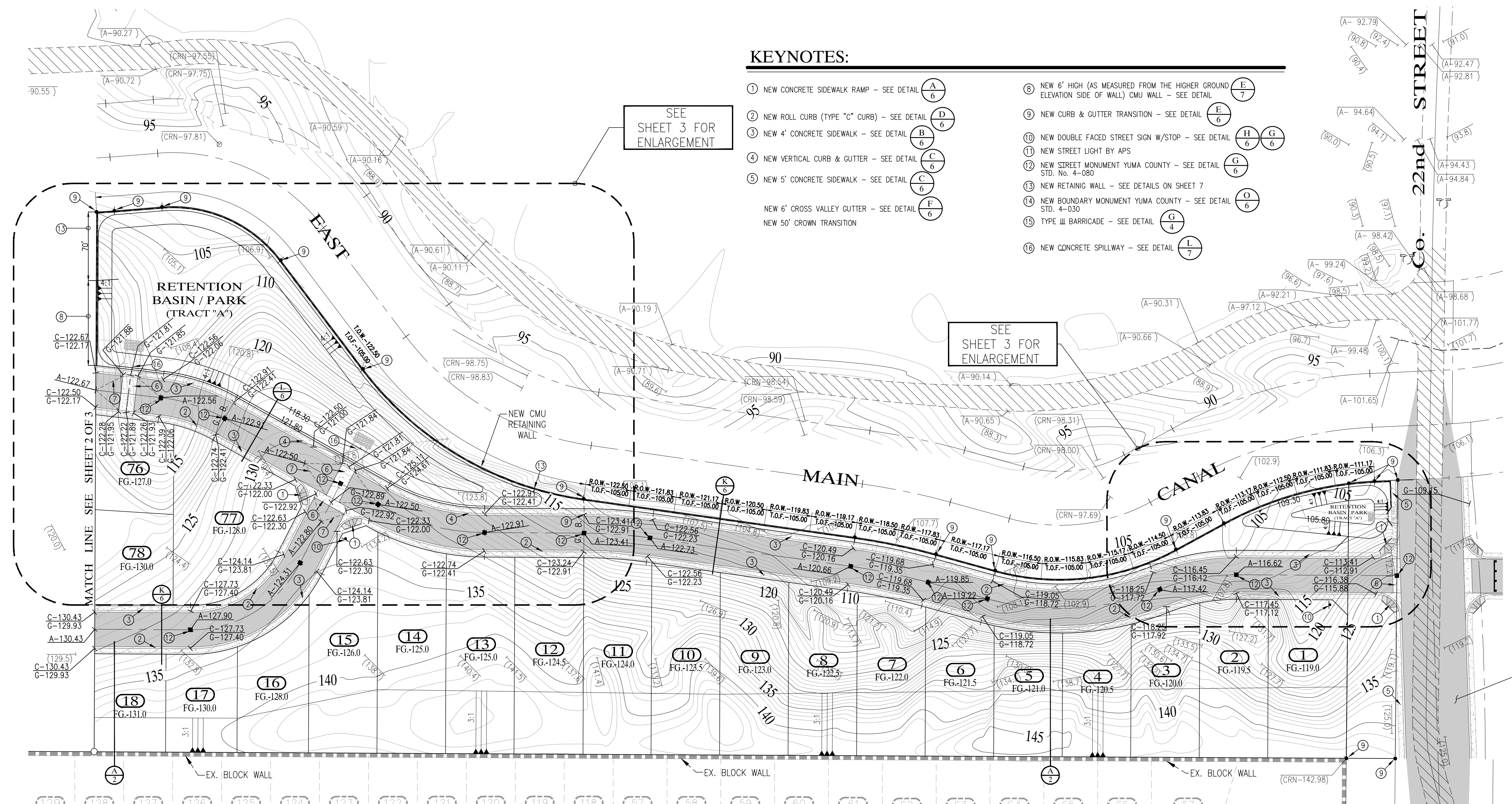


LEGEND SCALE: 1"=60'

- CENTERLINE
- BOUNDARY LINE
- EXISTING LOTS
- EXISTING CMU WALL
- EXISTING DIRT ROAD
- EXISTING ASPHALT
- NEW CMU WALL
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- (A-90.00) EXISTING ASPHALT ELEVATION
- (RD-103.20) EXISTING ROAD ELEVATION
- (C-135.50) EXISTING CURB & GUTTER ELEVATION
- (G-135.17) EXISTING SIDEWALK ELEVATION
- (SW-135.52) EXISTING CROWN ELEVATION
- (CRN-106.80) EXISTING CONTOUR LINE
- 120 EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R. YUMA COUNTY RECORDER
- A-122.50 NEW ASPHALT ELEVATION
- C-135.50 NEW CURB & GUTTER ELEVATION
- G-135.17 NEW SLOPE

KEYNOTES:

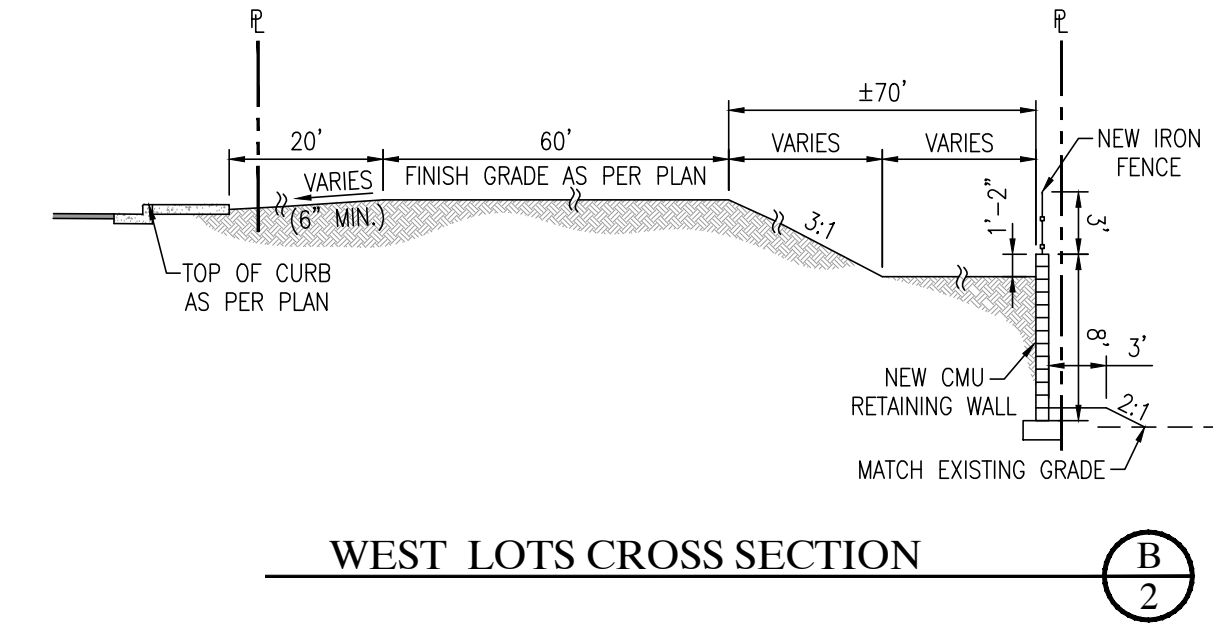
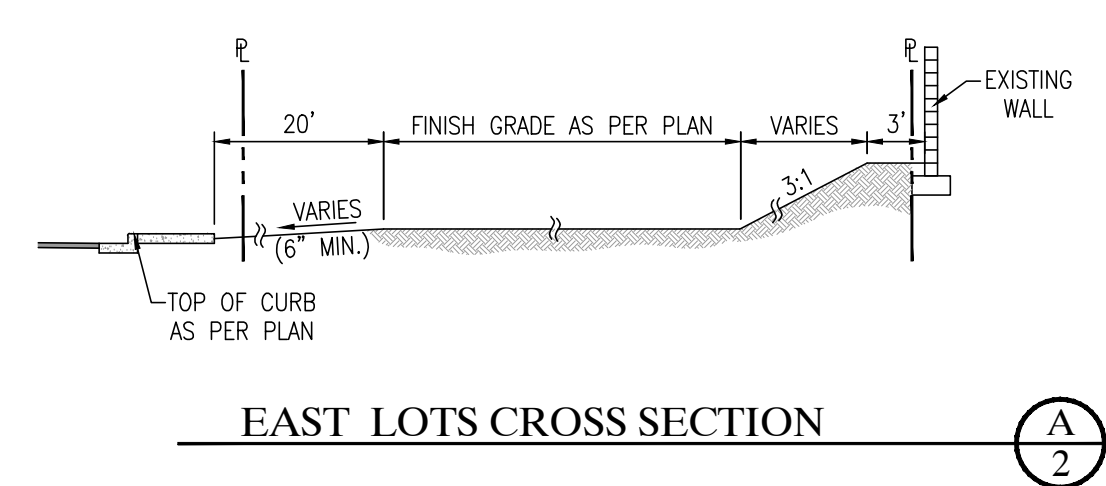
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- ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL (C/6)
- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (E/6)
- ⑥ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (F/7)
- ⑦ NEW CURB & GUTTER TRANSITION - SEE DETAIL (E/6)
- ⑧ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6) (G/6)
- ⑨ NEW STREET LIGHT BY APS (I/6)
- ⑩ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6)
- ⑪ NEW STREET MONUMENT STD. No. 4-080 (J/6)
- ⑫ NEW RETAINING WALL - SEE DETAILS ON SHEET 7 (O/6)
- ⑬ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL (K/6)
- ⑭ TYPE III BARRICADE - SEE DETAIL (L/6)
- ⑮ NEW CONCRETE SPILLWAY - SEE DETAIL (I/6)
- NEW 6' CROSS VALLEY GUTTER - SEE DETAIL (F/6)
- NEW 50' CROWN TRANSITION



SEE SHEET 3 FOR ENLARGEMENT

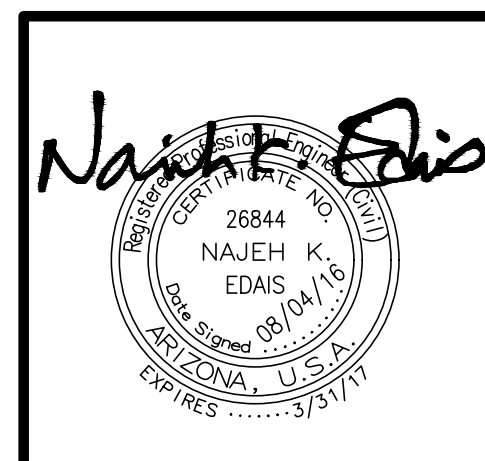
SEE SHEET 3 FOR ENLARGEMENT

SEE SHEET 5 COUNTY 22ND STREET IMPROVEMENT



LAS QUINTAS DE SAN LUIS SUBDIVISION PHASE 2 BK 17, PG. 85, Y.C.R.

LAS QUINTAS DE SAN LUIS SUBDIVISION PHASE 1 BK 17, PG. 84, Y.C.R.



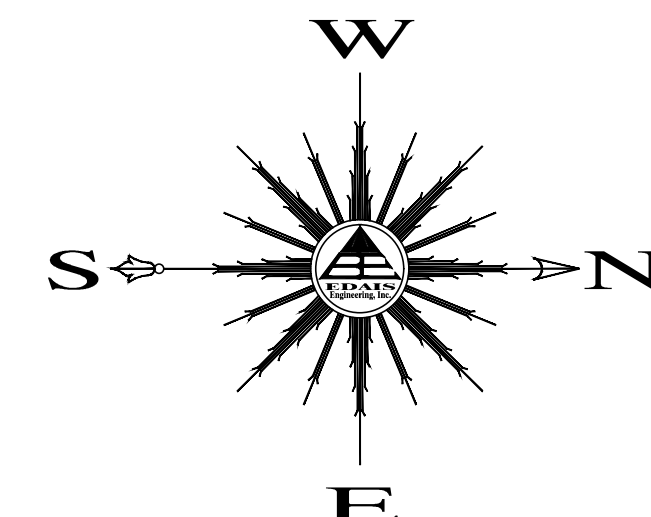
COPYING, REPRODUCTION, OR PUBLICATION OF THESE PLANS BY ANY METHOD, IN WHOLE OR IN PART IS PROHIBITED.

LAS QUINTAS DE SAN LUIS II SUBDIVISION
PAVING & GRADING PLAN

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015

Edais Engineering, Inc.
 3072 S. AVE. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najeh@Edaisgroup.com

SHEET 2

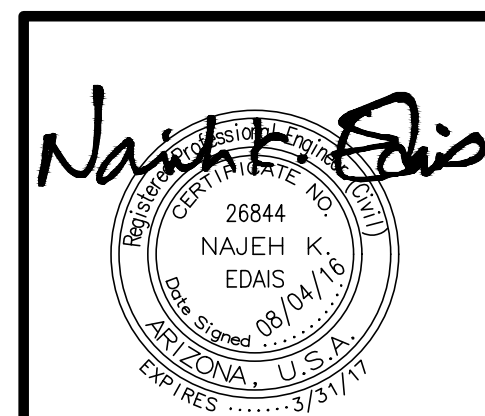
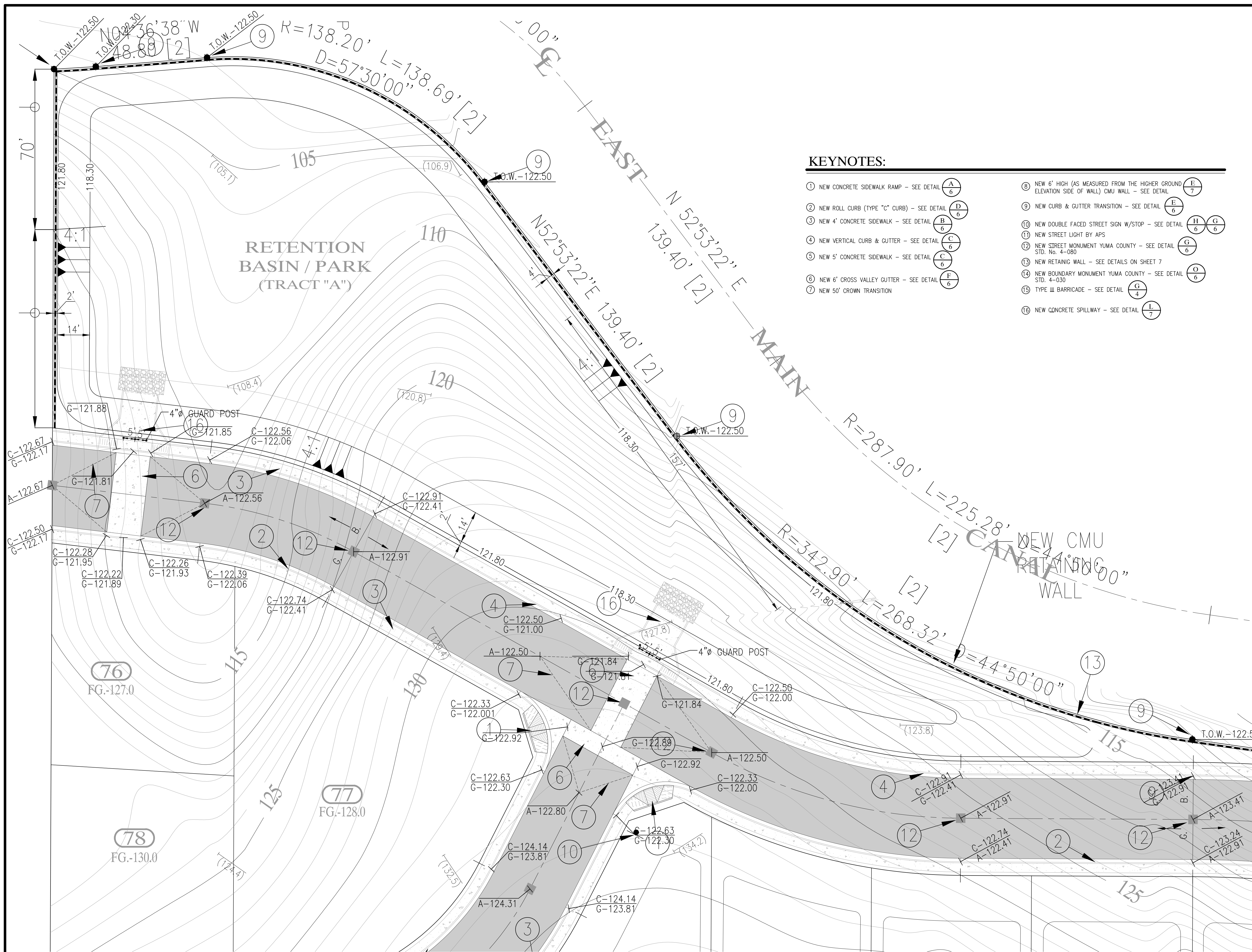


SCALE: 1"=20'

KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
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- ⑦ NEW 50' CROWN TRANSITION
- ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (E/7)
- ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL (E/6)
- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6) (G/6)
- ⑪ NEW STREET LIGHT BY APS
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL STD. No. 4-080
- ⑬ NEW RETAINING WALL - SEE DETAILS ON SHEET 7
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL STD. 4-030
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)
- ⑯ NEW CONCRETE SPILLWAY - SEE DETAIL (L/7)

- LEGEND**
- CENTERLINE
 - BOUNDARY LINE
 - EXISTING LOTS
 - EXISTING CMU WALL
 - EXISTING DIRT ROAD
 - EXISTING ASPHALT
 - NEW CMU WALL
 - FOUND MONUMENT (TYPE AS SHOWN)
 - B.C. INDICATES BRASS CAP
 - H.H. INDICATES HAND HOLE
 - T.O.W. INDICATE TOP OF WALL ELEVATION
 - T.F. INDICATE TOP OF FOOTING ELEVATION
 - ([1]) DATA REFER TO BARKLEY PROPERTY - SAN LUIS, BOUNDARY SURVEY CONDUCTED BY DAHL, ROBINS & ASSOCIATES, INC. PROJECT No. 07076 SIGNED BY JUAN N. LOMELI DATED JULY 24, 2007.
 - ([2]) DATA REFER TO BARKLEY LOT SPLIT No. 2 AS RECORDED IN BOOK ___ OF PLATS, PAGE ___, Y.C.R.O., YUMA COUNTY, ARIZONA.
 - (133.0) EXISTING NATURAL SOIL ELEVATION
 - (A-90.00) EXISTING ASPHALT ELEVATION
 - (RD-103.20) EXISTING ROAD ELEVATION
 - (C-135.50) EXISTING CURB & GUTTER ELEVATION
 - (G-135.17) EXISTING SIDEWALK ELEVATION
 - (SW-135.52) EXISTING CROWN ELEVATION
 - (CRW-106.80)
 - 120 EXISTING CONTOUR LINE
 - EXISTING LOT NUMBER
 - A.P.N. ASSESSOR PARCEL NUMBER
 - Y. C. R. YUMA COUNTY RECORDER
 - A-122.50 NEW ASPHALT ELEVATION
 - G-135.50 NEW CURB & GUTTER ELEVATION
 - G-135.17
 - 0.2% NEW SLOPE



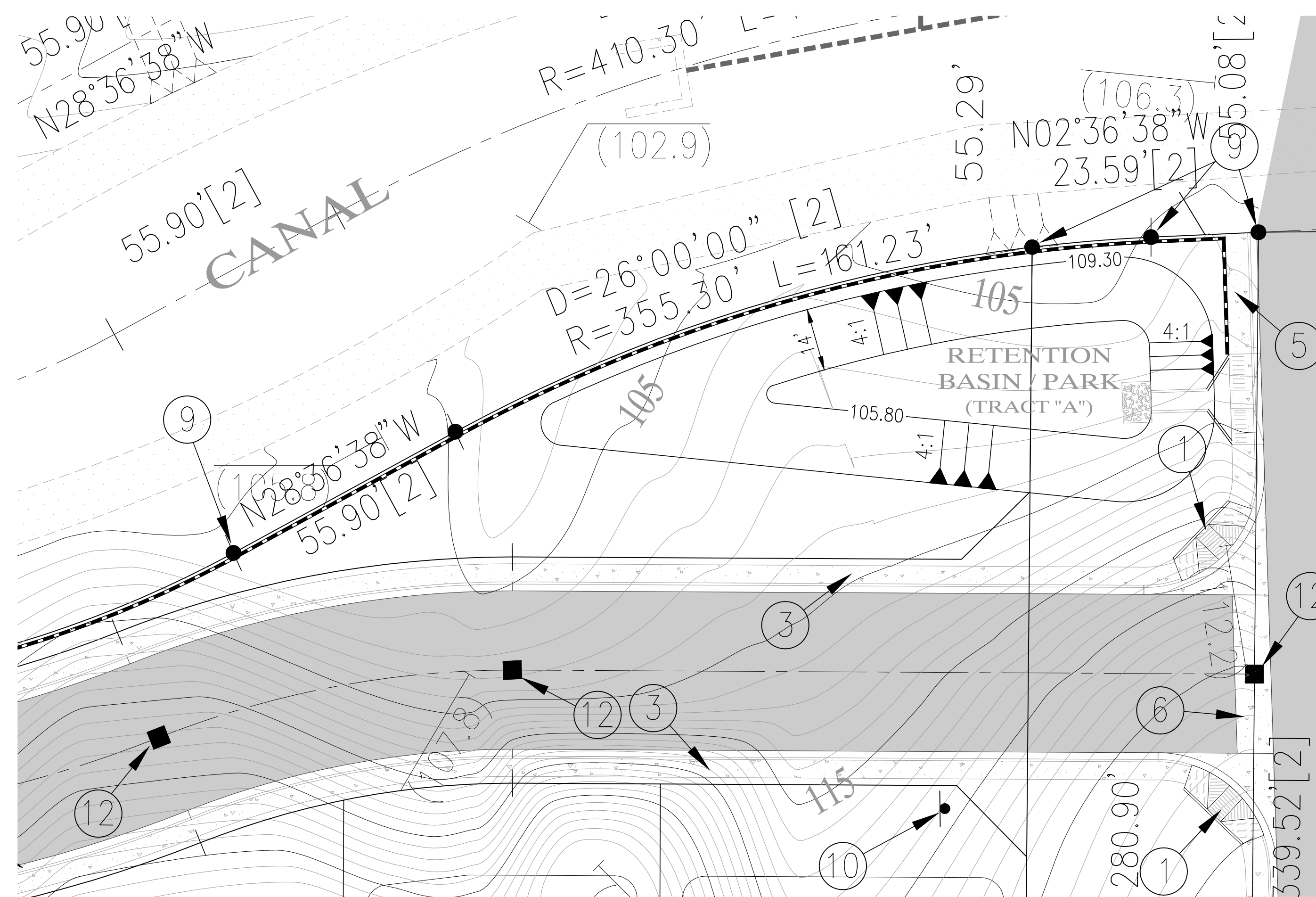
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PAVING & GRADING PLAN

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015

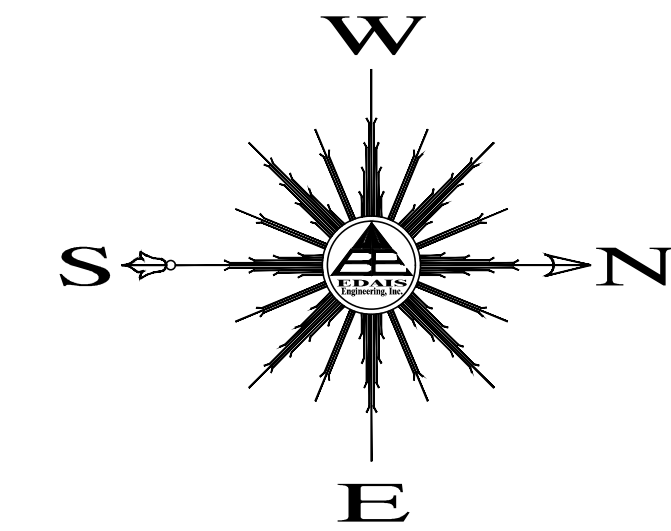
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DRAINAGE REPORT

- I. RAINFALL CALCULATIONS**
DRAINAGE AREA (AREA 1)
 DRAINAGE AREA = 24.43 AC
 RAINFALL INTENSITY (I) = 1.22 IN 1 HR.
 PEAK RATE RUNOFF (C) = 0.43
 $Q = (24.43)(0.43)(1.22) = 12.82$ CFS.
 TOTAL RAINFALL = (7200)(12.82) = 92,275 CF
- DRAINAGE AREA (AREA 2)**
 DRAINAGE AREA = 4.32 AC
 RAINFALL INTENSITY (I) = 1.22 IN 1 HR.
 PEAK RATE RUNOFF (C) = 0.43
 $Q = (4.32)(0.43)(1.22) = 2.26$ CFS.
 TOTAL RAINFALL = (7200)(2.26) = 16,317 CF
- II. STORAGE VOLUME PROVIDED:**
RETENTION BASIN #1:
 TOP AREA : 49,909 SF
 BOTTOM AREA : 33,949 SF
 DEPTH = 3.5 FT
 STORAGE VOLUME PROVIDED =
 $(49,909 + 33,949) 3.5 / 2 = 146,752$ CF
 FACTOR OF SAFETY = $\frac{146,752}{92,275} = 1.59$ ∴ OK
- RETENTION BASIN #2:**
 TOP AREA : 5,954 SF
 BOTTOM AREA : 4,212 SF
 DEPTH = 3.5 FT
 STORAGE VOLUME PROVIDED =
 $(5,954 + 4,212) 3.5 / 2 = 17,790$ CF
 FACTOR OF SAFETY = $\frac{17,790}{16,317} = 1.09$ ∴ OK
- 1.- THERE IS NO OFF SITE STORMWATER ENTERING THE SITE AND ALL STORMWATER GENERATED BY THE SITE WILL BE STORED ON SITE.
 2.- THIS PROJECT IS LOCATED IN FLOOD ZONE "B" AS DETERMINED BY THE FIRM MAPS.
 3.- THE ON-SITE SOIL AS CLASSIFIED AS SUPERSTITION SAND AS DETERMINED BY THE SOIL CONSERVATION SERVICE MAPS FOR YUMA-WELTON AREA WITH HIGH PERCOLATION RATE. NO PONDING OF WATER IS ANTICIPATED DUE TO THE SOIL CONDITION. CONSERVATION SERVICE MAPS FOR YUMA-WELTON AREA WITH HIGH PERCOLATION RATE.

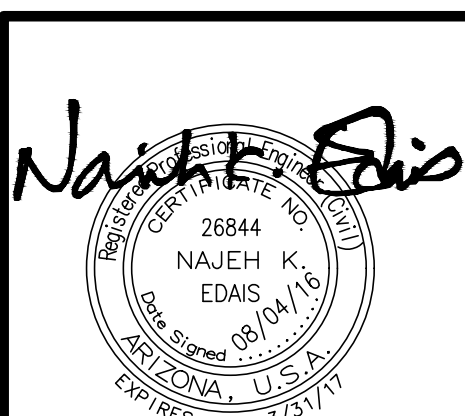


LEGEND SCALE: 1"=20'

- CENTERLINE
- BOUNDARY LINE
- EXISTING LOTS
- EXISTING CMU WALL
- EXISTING DIRT ROAD
- EXISTING ASPHALT
- NEW CMU WALL
- FOUND MONUMENT (TYPE AS SHOWN)
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- T.O.W. INDICATE TOP OF WALL ELEVATION
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- (G-135.17) EXISTING SIDEWALK ELEVATION
- (SW-135.52) EXISTING CROWN ELEVATION
- (CRN-106.66)
- 120 EXISTING CONTOUR LINE
- EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R. YUMA COUNTY RECORDER
- A-122.50 NEW ASPHALT ELEVATION
- C-135.50 NEW CURB & GUTTER ELEVATION
- G-135.17
- 0.2% NEW SLOPE

KEYNOTES:

- | | |
|--|---|
| ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL $\frac{A}{6}$ | ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL $\frac{E}{7}$ |
| ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL $\frac{D}{6}$ | ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL $\frac{E}{6}$ |
| ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL $\frac{B}{6}$ | ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL $\frac{H}{6}$ $\frac{G}{6}$ |
| ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL $\frac{C}{6}$ | ⑪ NEW STREET LIGHT BY APS |
| ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL $\frac{C}{6}$ | ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL STD. No. 4-080 $\frac{G}{6}$ |
| ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL $\frac{F}{6}$ | ⑬ NEW RETAINING WALL - SEE DETAILS ON SHEET 7 |
| ⑦ NEW 50' CROWN TRANSITION | ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL STD. 4-030 $\frac{O}{6}$ |
| | ⑮ TYPE III BARRICADE - SEE DETAIL $\frac{G}{4}$ |
| | ⑯ NEW CONCRETE SPILLWAY - SEE DETAIL $\frac{L}{7}$ |



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PAVING & GRADING PLAN

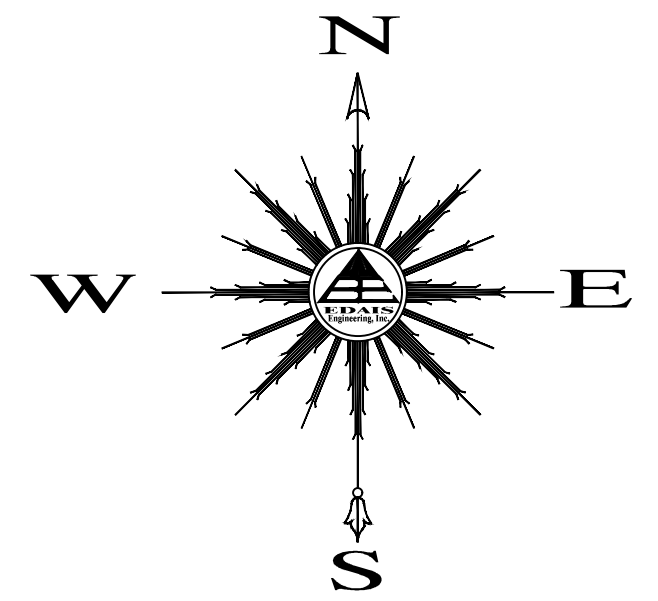
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DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015

SHEET 4

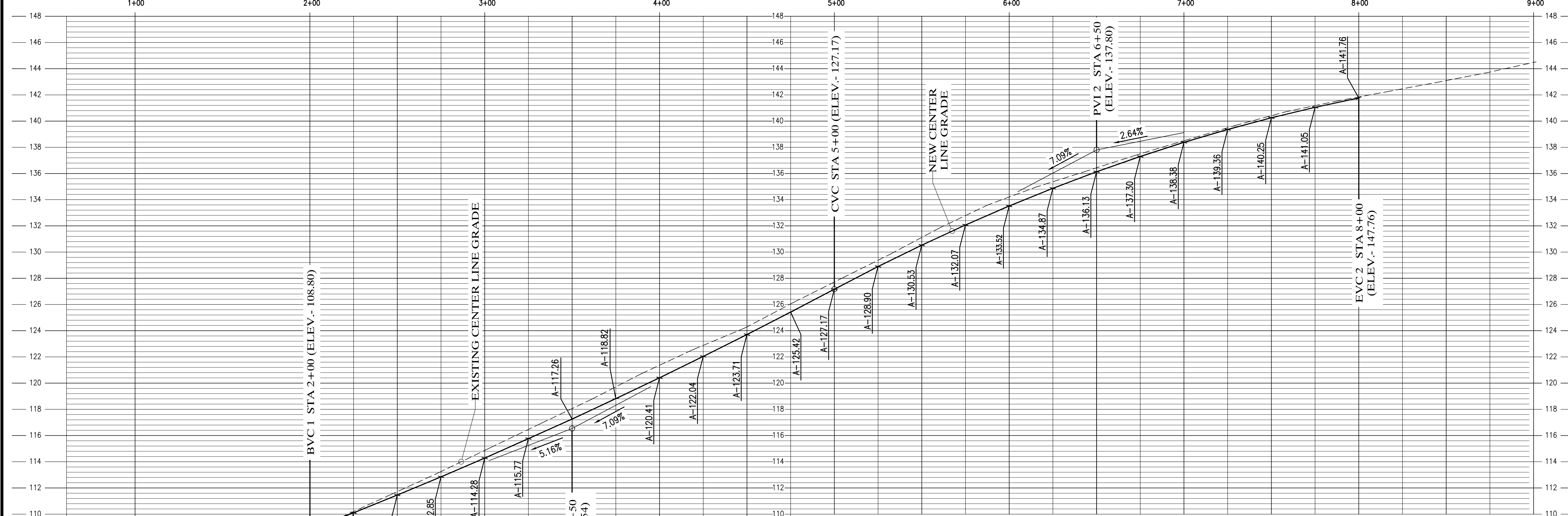
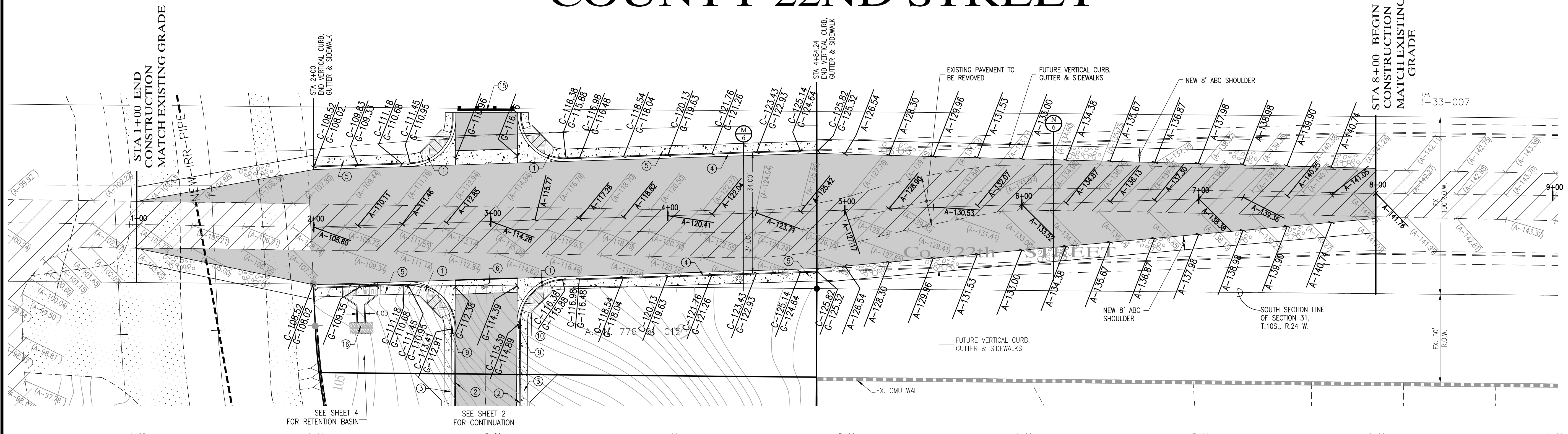
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COUNTY 22ND STREET

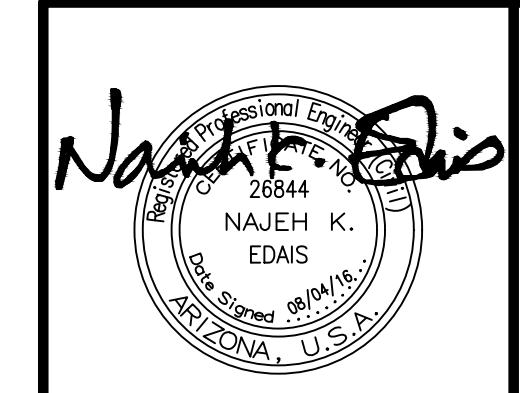


SCALE HORIZ: 1" = 30'
SCALE VERT: 1" = 4'



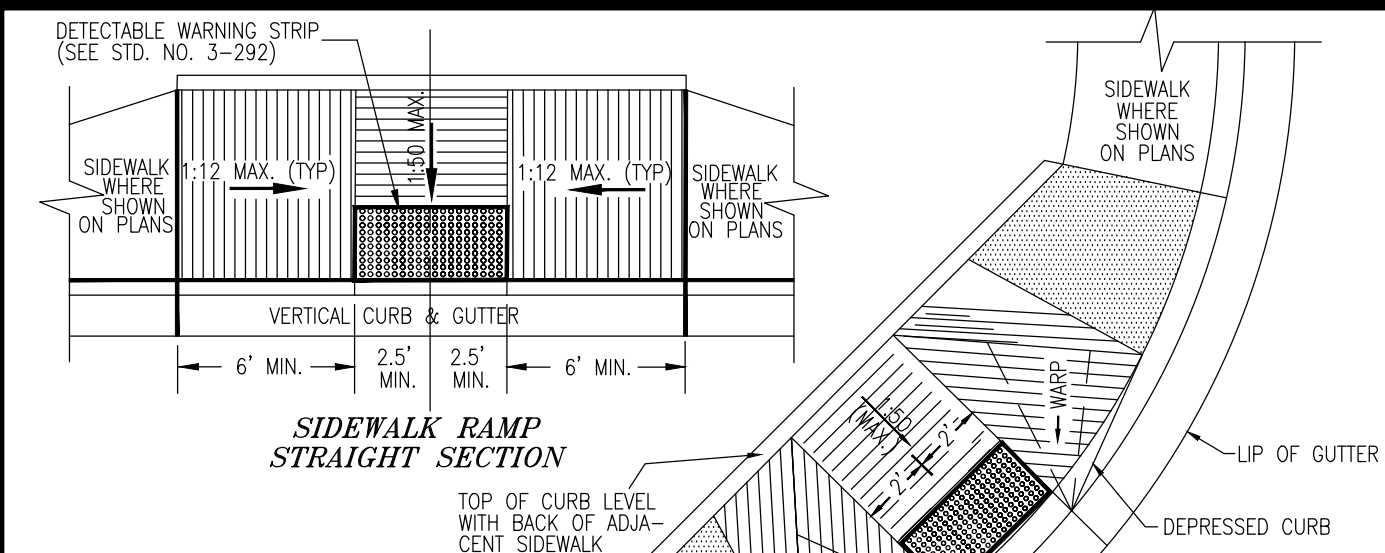
KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
- ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL (B/6)
- ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL (C/6)
- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (C/6)
- ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL (E/6)
- ⑦ NEW 50' CROWN TRANSITION
- ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (E/7)
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- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6) (G/6)
- ⑪ NEW STREET LIGHT BY APS
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6)
- ⑬ NEW RETAINING WALL - SEE DETAILS ON SHEET 7
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL STD. 4-030
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)
- ⑯ NEW CONCRETE SPILLWAY

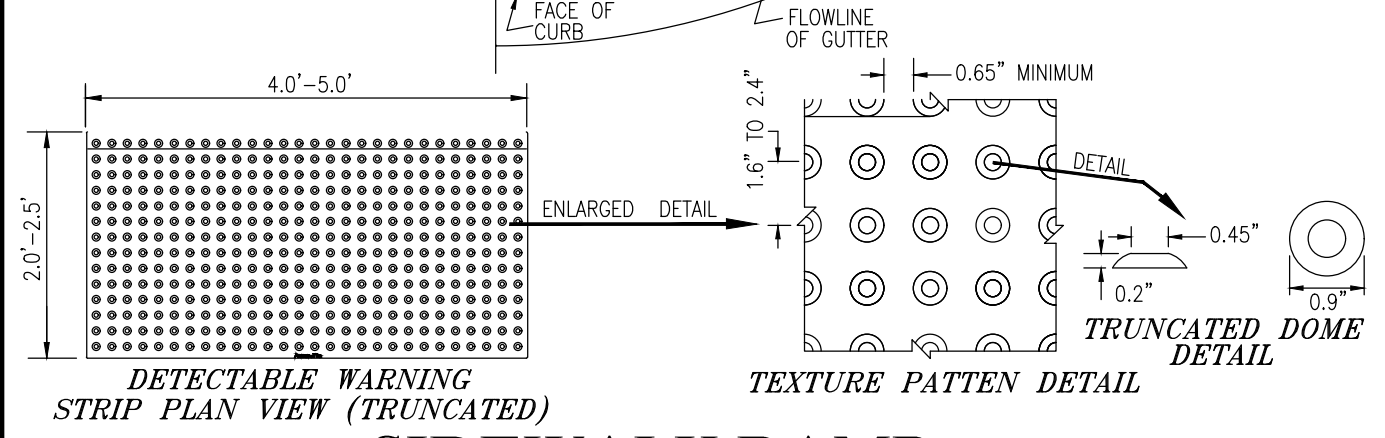


LAS QUINTAS DE SAN LUIS II SUBDIVISION		
COUNTY 22nd STREET IMPROVEMENT		
SCALE: AS SHOWN	DESIGNED BY: N.K.E.	CHECKED BY: N.K.E.
DATE: AUG 2016	DRAWN BY: STAFF	JOB No. 14-015
		SHEET 5
Yuma, Arizona 85365 3075 S. Ave. 4E (928) 344-3566 FAX (928) 341-1075 EMAIL: EE@Edaisengineering.com		

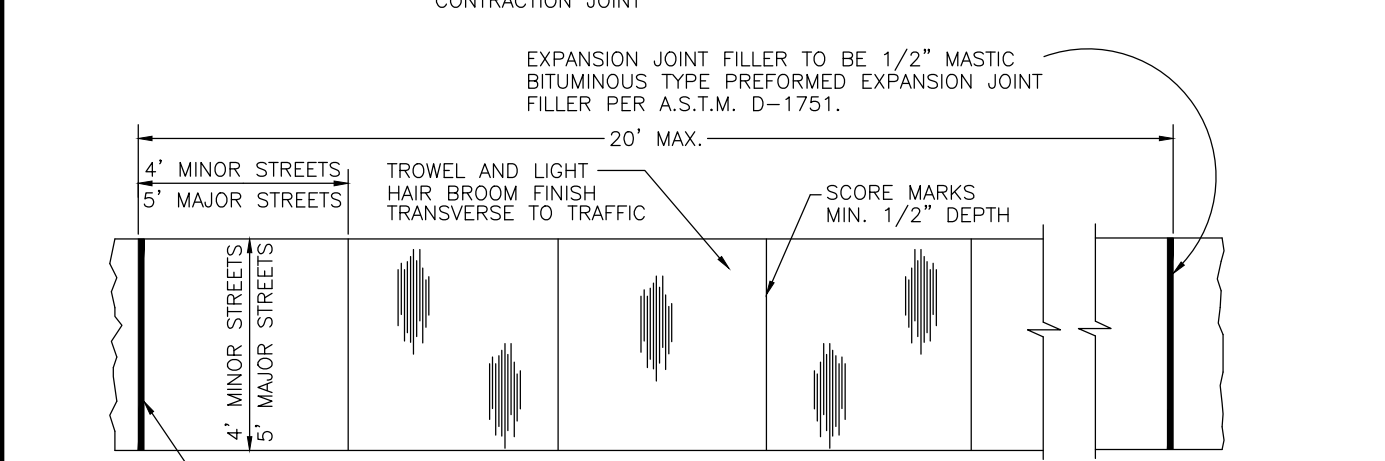
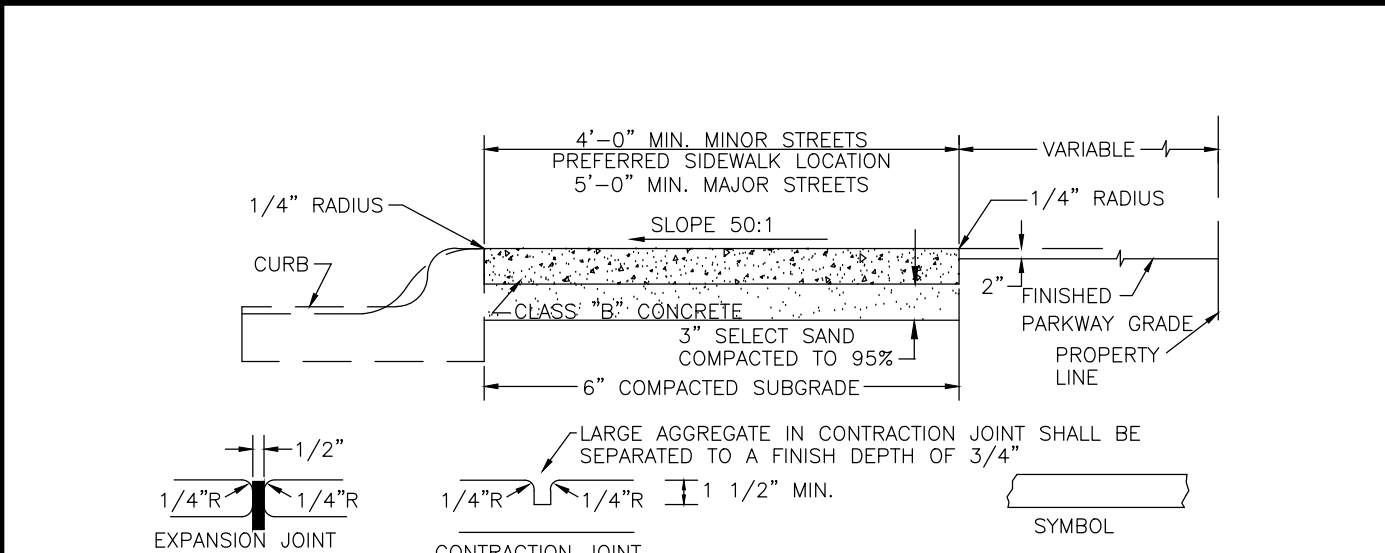
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NOTE:
 1. SEE STD. DETAIL NO. 3-291 SHEET 2 OF 2 FOR ADDITIONAL DETAILS ON DETECTABLE WARNING STRIP.
 2. DETECTABLE WARNING STRIP (SEE STD. NO. 3-291 Sh. 2 of 2)

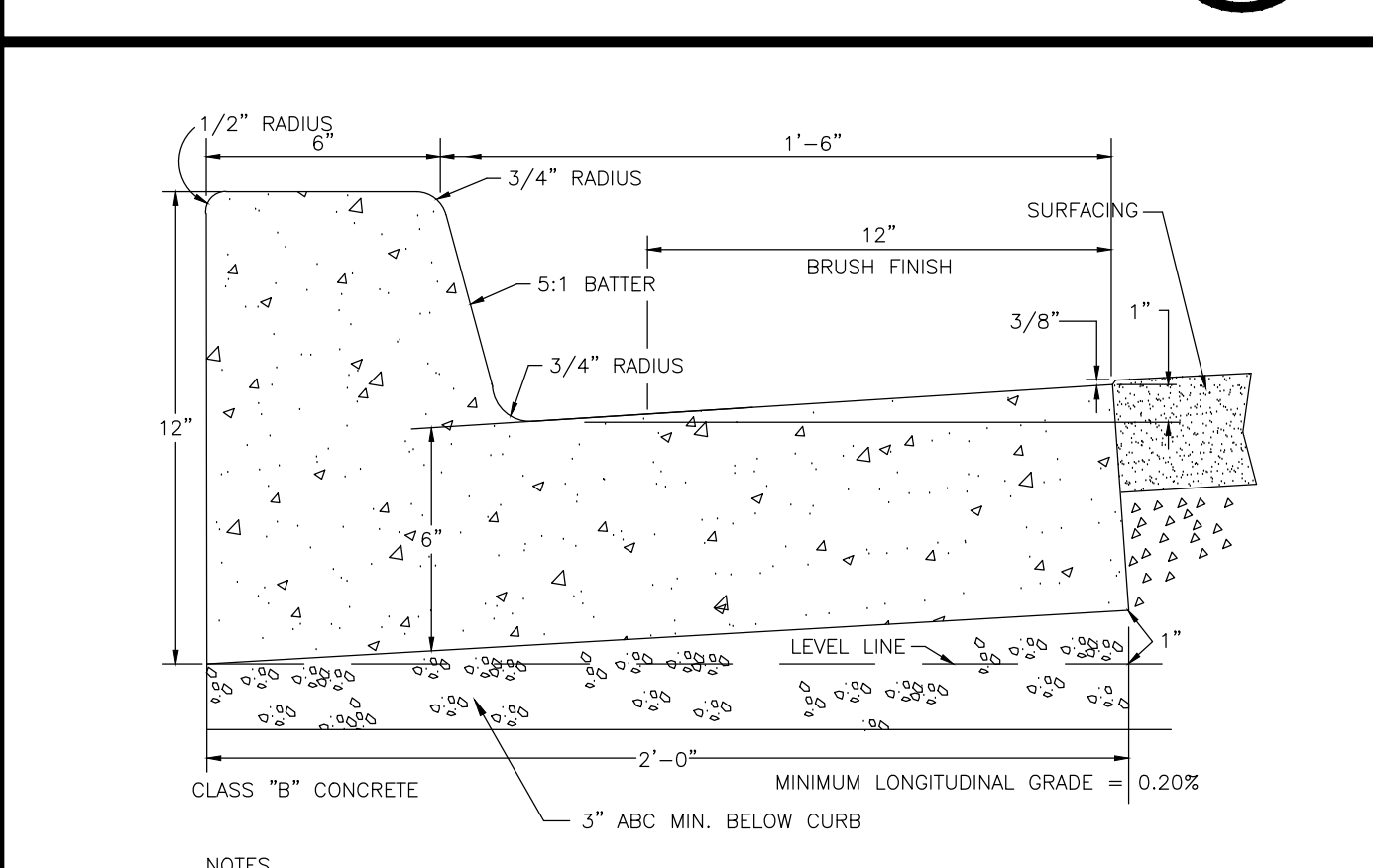


TRUNCATED DOME DETAIL
 DETECTABLE WARNING STRIP PLAN VIEW (TRUNCATED)
 CO. OF YUMA STD. NO. 3-280 (MODIFIED) NTS



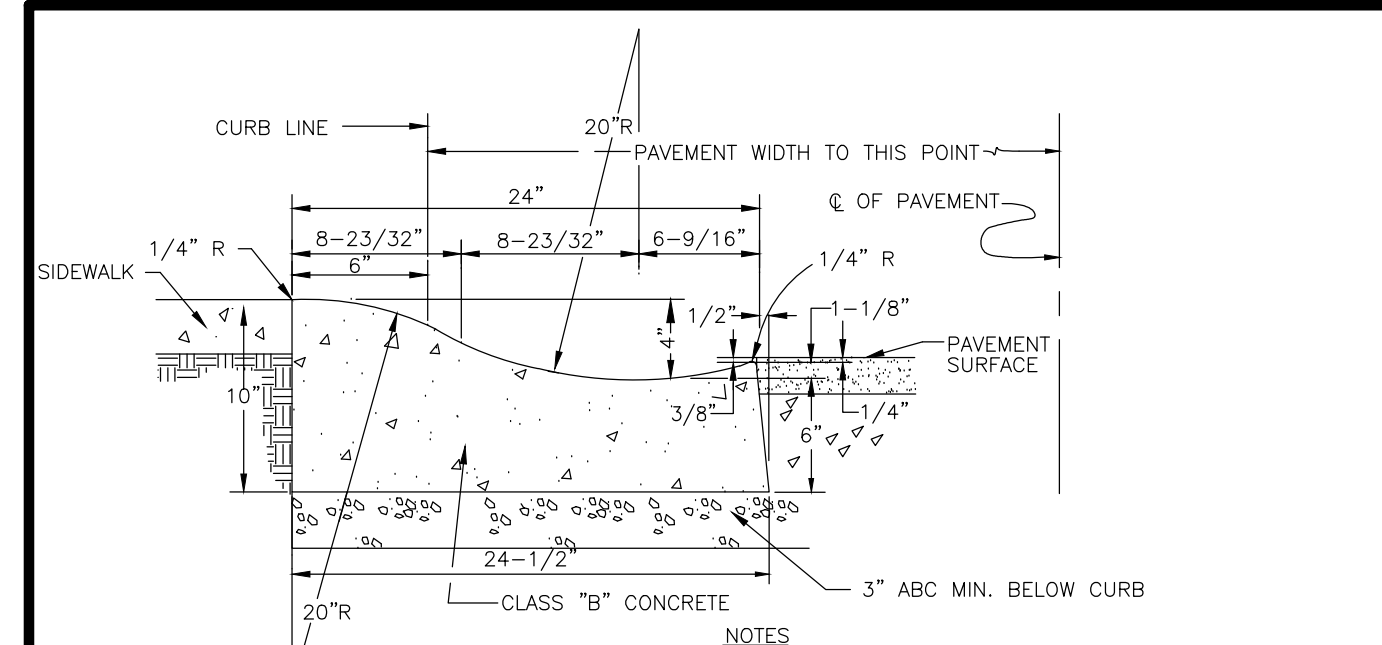
NOTES
 1. EXPANSION AND CONTRACTION JOINTS PER STANDARD SPECIFICATIONS
 2. ALL CONCRETE JOINTS TO BE SEALED WITH A SILICONE SEALANT

TYPICAL SIDEWALK
 CO. OF YUMA STD. NO. 3-270 NTS



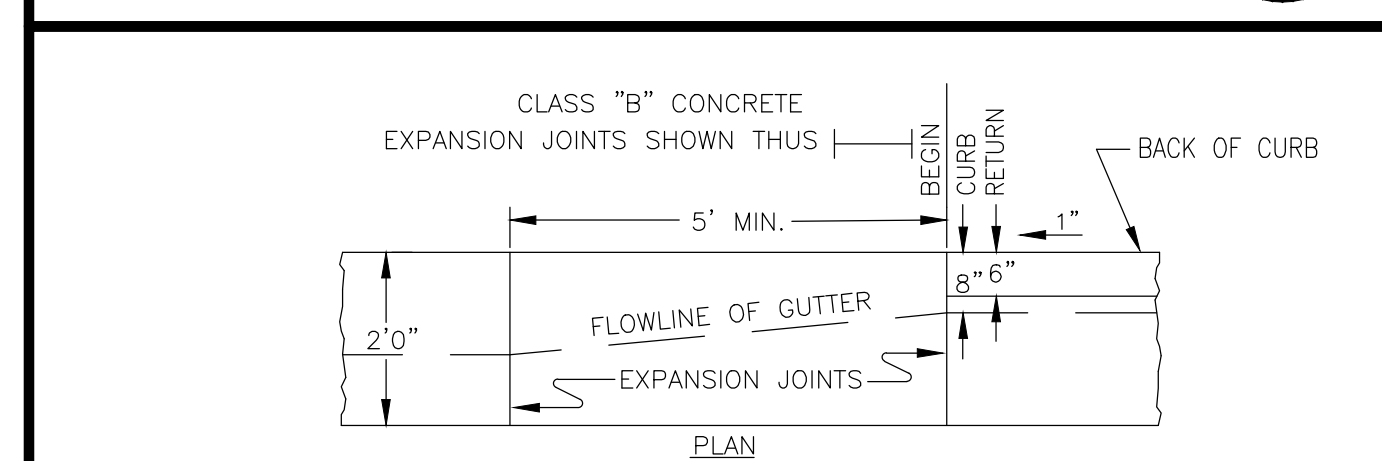
NOTES
 1. ALL EXPOSED SURFACES SHALL BE BROOM FINISHED EXCEPT AS SHOWN.
 2. CONTRACTION JOINT SPACING SHALL BE 10' ON 5' OR WIDER SIDEWALKS AND 8' ON 4' WIDE SIDEWALKS.
 3. EXPANSION JOINT SPACING 20' MAX.
 4. TYPE 'A' CURB SHALL BE USED ON CITY STREETS EXCEPT WHERE TYPE 'B' CURB IS REQUIRED ALONG A.D.O.T. R/W TO MATCH EXISTING CURB.
 5. ALL CONCRETE JOINTS TO BE SEALED WITH A SILICONE SEALANT

TYPE "A" CURB
 CO. OF YUMA STD. NO. 3-120 NTS



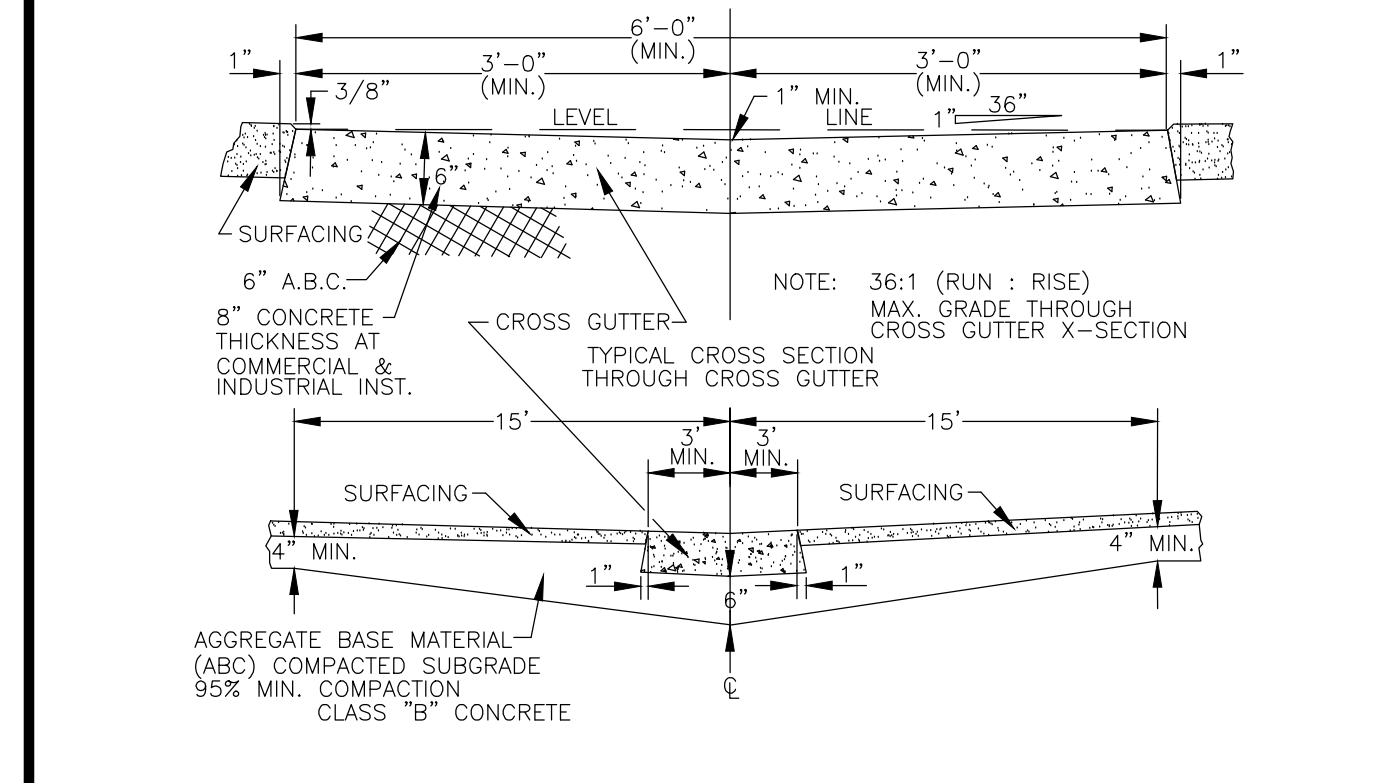
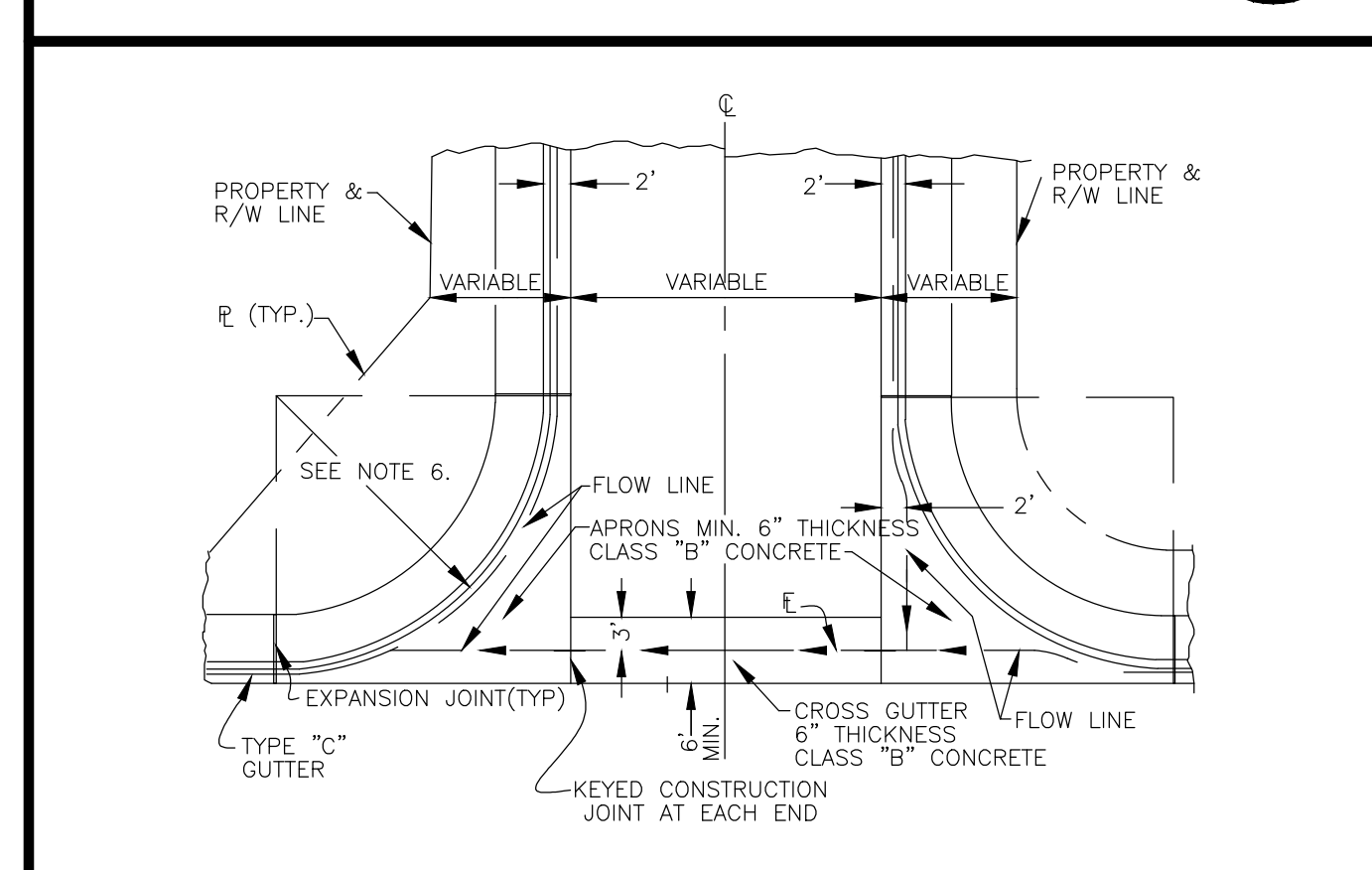
NOTES
 1. BROOM FINISH EXPOSED SURFACE.
 2. CONTRACTION JOINT SPACING SHALL BE 10' ON 5' OR WIDER SIDEWALKS AND 8' ON 4' WIDE SIDEWALKS.
 3. EXPANSION JOINT SPACING 20' MAX.

TYPE "C" CURB
 CO. OF YUMA STD. NO. 3-140 NTS



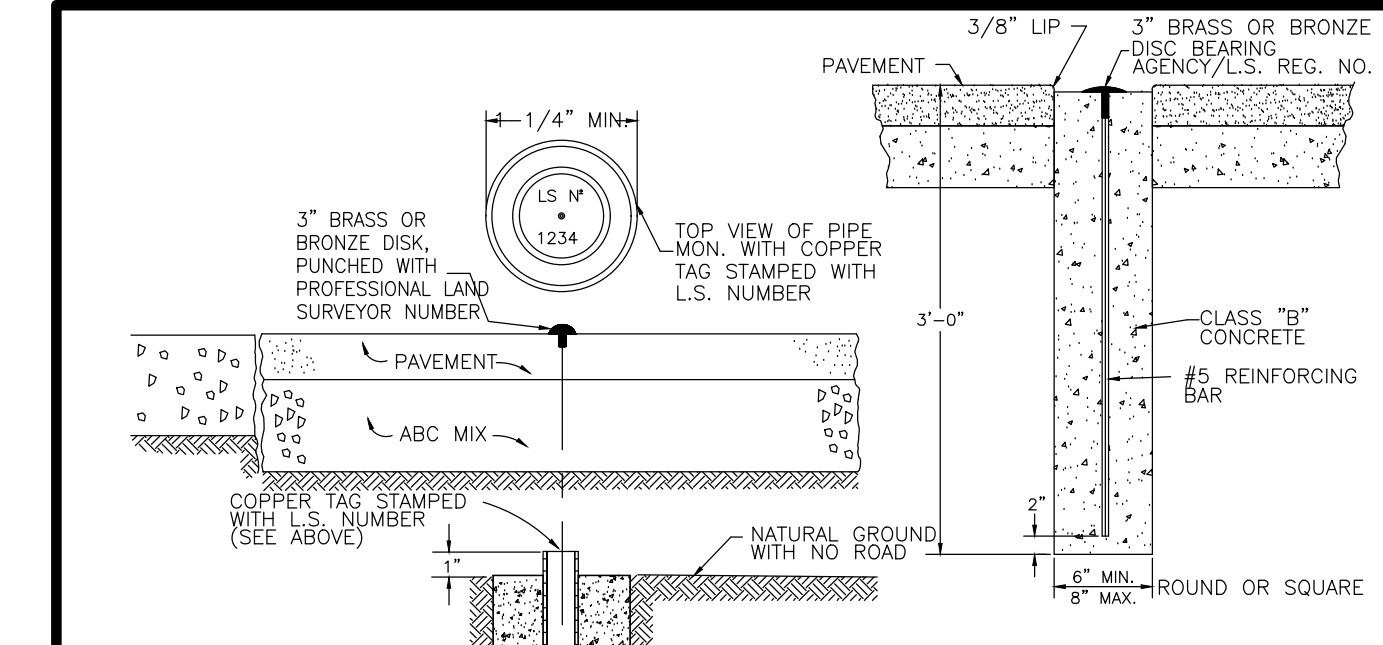
CLASS "B" CONCRETE
 EXPANSION JOINTS SHOWN THUS
 CURB & GUTTER TYPE "C"
 CLASS "B" CONCRETE
 MAINTAIN GUTTER GRADE
 CURB & GUTTER TYPE "A" OR "B"

CURB AND TRANSITION
 CO. OF YUMA STD. NO. 3-200 NTS



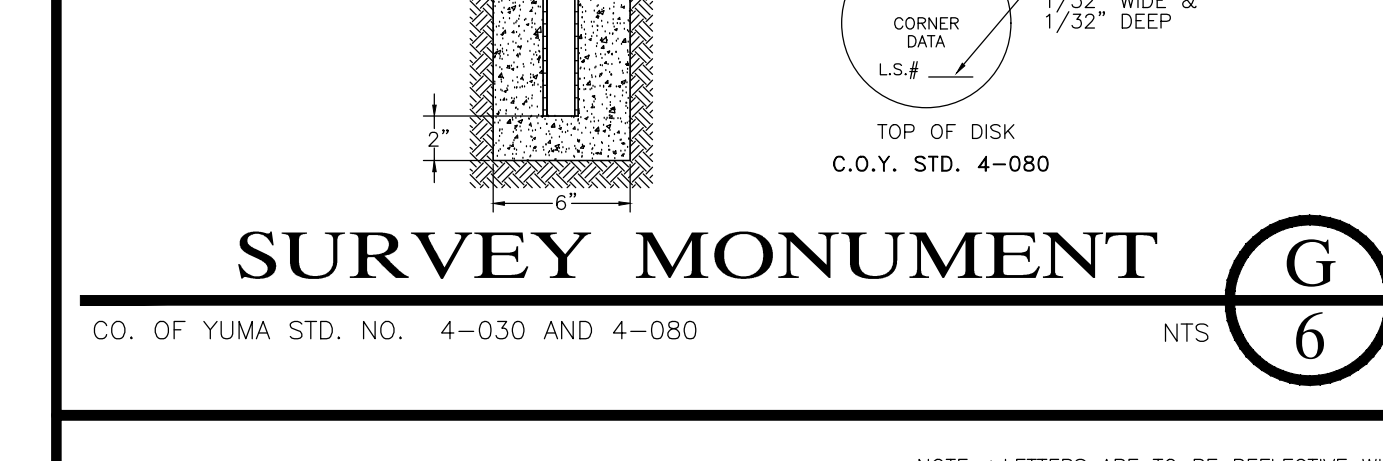
NOTES
 1. BROOM FINISH EXPOSED SURFACE.
 2. CONTRACTION JOINT SPACING 10' MAX.
 3. EXPANSION JOINT SPACING 20' MAX.
 4. ASPHALT CROSS GUTTERS ARE NOT ALLOWED.
 5. 6" ABC SHALL BE PLACED UNDER BOTH APRONS & CROSS-GUTTER COMPACTED TO A MIN. 95% DENSITY.
 6. RADIUS REQUIREMENTS:
 A. LOCAL STREET: 25' MINIMUM
 B. COLLECTOR STREETS: 40' MINIMUM
 C. ARTERIAL STREETS: 50' MINIMUM
 7. ALL CONCRETE JOINTS TO BE SEALED

CONCRETE VALLEY GUTTER
 CO. OF YUMA STD. NO. 3-170 AND 3-180 NTS



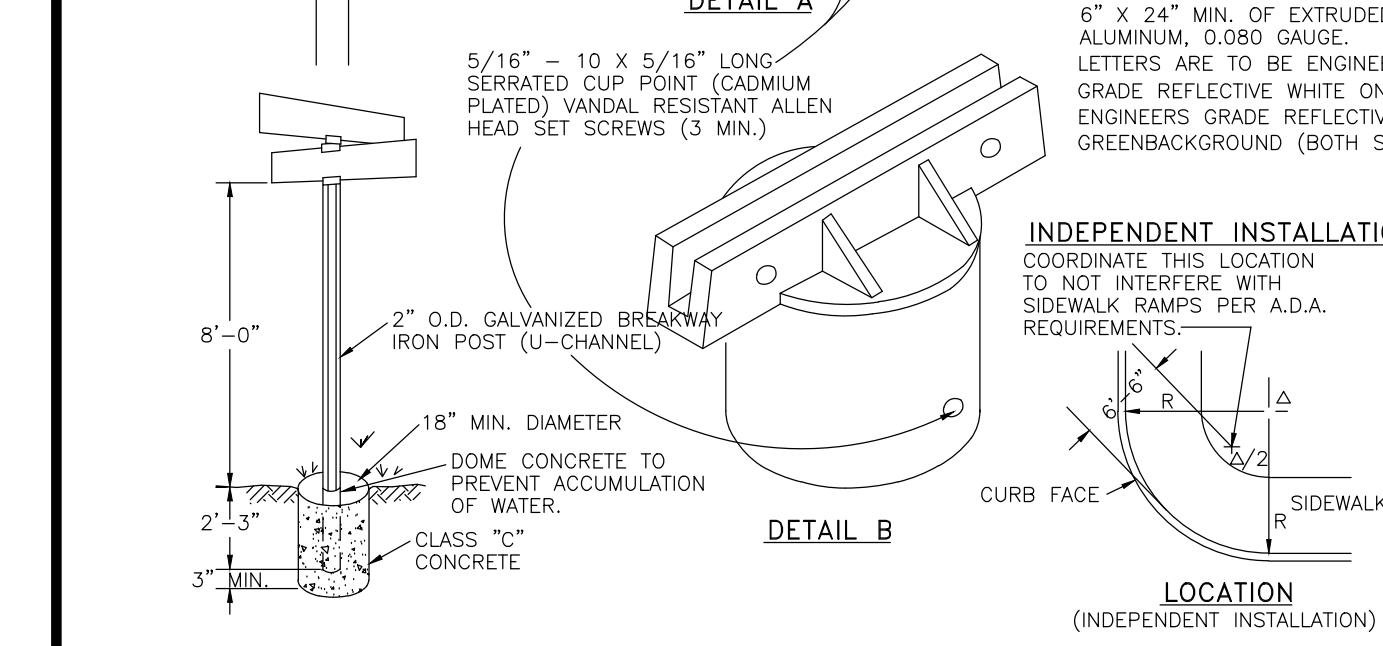
LETTERS TO BE NOT LESS THAN 5/16" HIGH (TYP.)
 IMPRINT TO BE APPROX. 1/32" WIDE & 1/32" DEEP
 TOP OF DISK C.O.Y. STD. 4-080

SURVEY MONUMENT
 CO. OF YUMA STD. NO. 4-030 AND 4-080 NTS

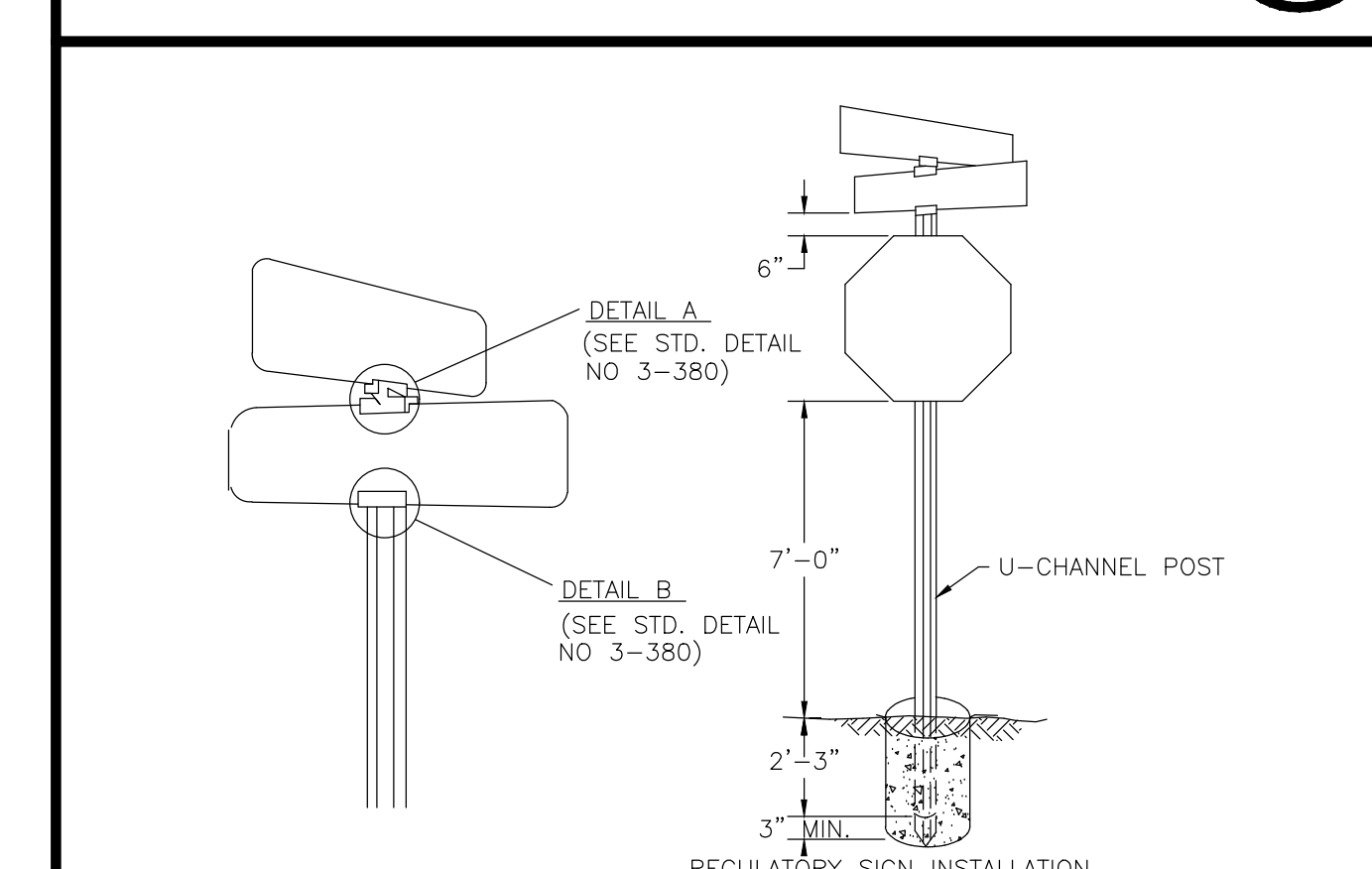


GENERAL NOTES
 SIGN BRACKETS TO BE VULCAN MODEL VSS-1/VSS-1UC OR EQUIVALENT AS APPROVED BY THE COUNTY ENGINEER
 SIGN BRACKET SLOTS ARE TO BE SIZED FOR EXTRUDED ALUMINUM SIGN BLANKS.
 SIGN BLANKS ARE TO BE 6" X 24" MIN. OF EXTRUDED ALUMINUM, D.080 GAUGE.
 LETTERS ARE TO BE ENGINEERS GRADE REFLECTIVE WHITE ON ENGINEERS GRADE REFLECTIVE GREEN/BACKGROUND (BOTH SIDES)

INDEPENDENT INSTALLATION
 COORDINATE THIS LOCATION TO NOT INTERFERE WITH SIDEWALK RAMP PER A.D.A. REQUIREMENTS.

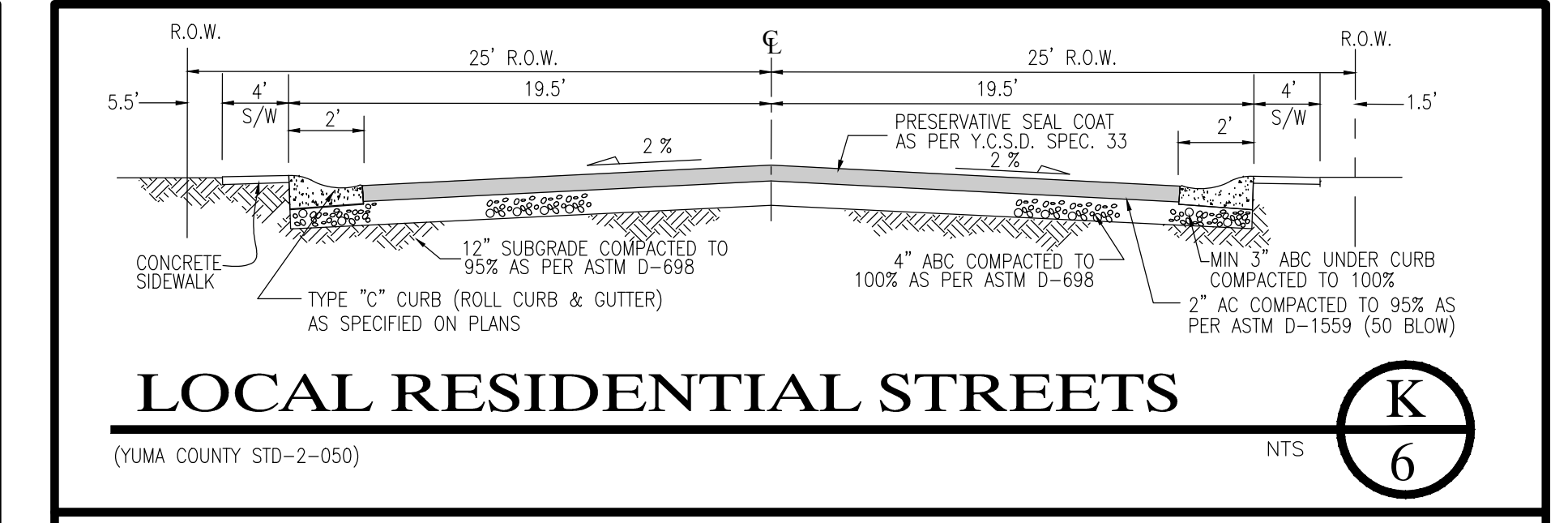


DOUBLE FACED STREET SIGN
 CO. OF YUMA STD. NO. 3-380 NTS

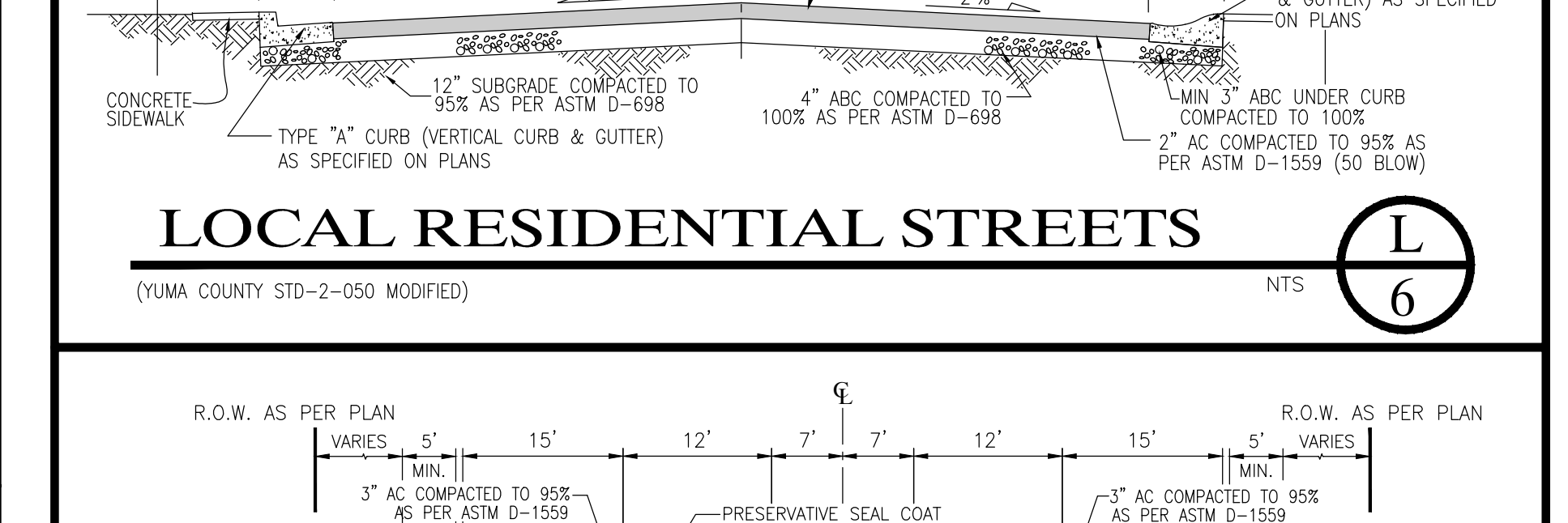


NOTES
 U-CHANNEL POSTS SHALL BE FLANGED GALVANIZED AND A MINIMUM OF 2 LBS. PER FOOT IN WEIGHT AS SPECIFIED.
 WHEN STREET NAME SIGNS ARE MOUNTED WITH A REGULATORY SIGN, THE LOCATION WILL BE AS PER THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 SEE GENERAL NOTES ON STD. DETAIL NO. 3-380.

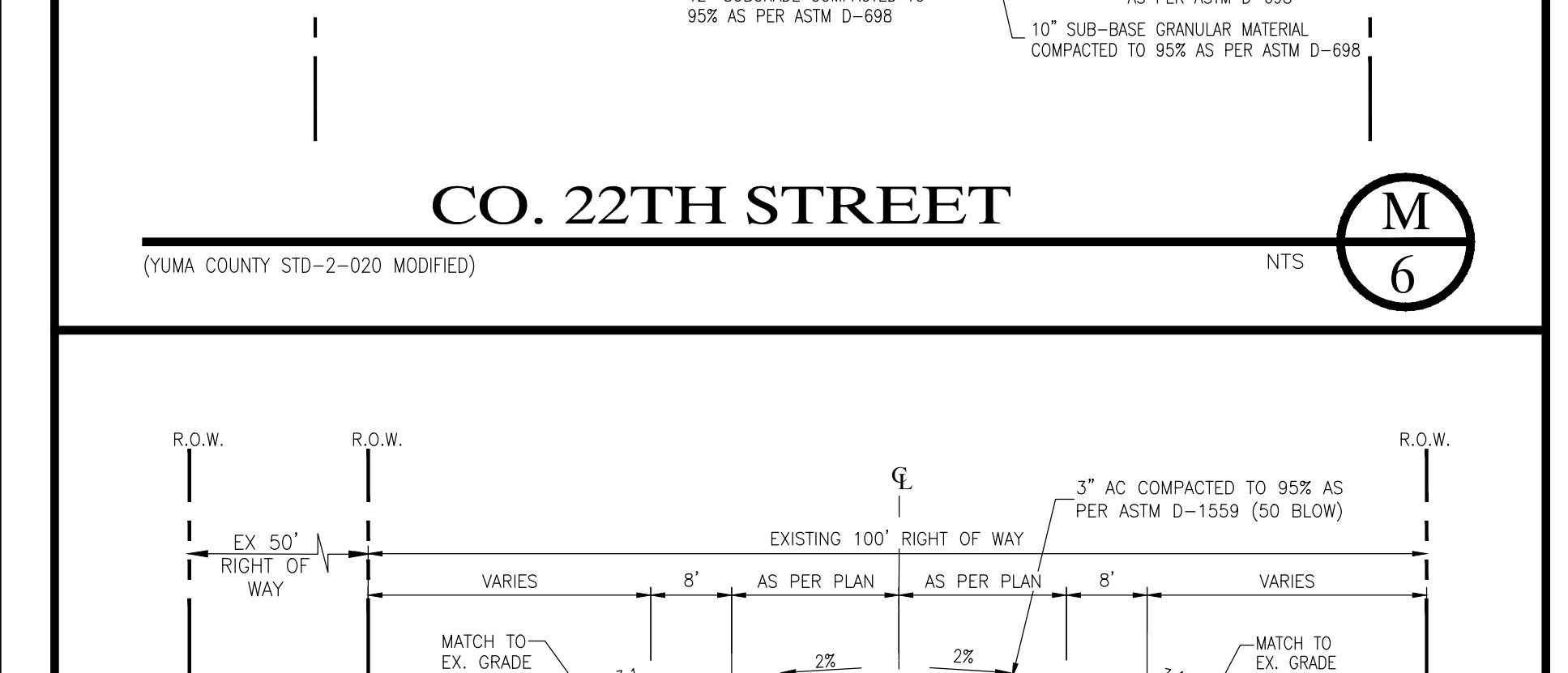
DOUBLE FACED STREET SIGN WITH STOP SIGN
 CO. OF YUMA STD. NO. 3-390 NTS



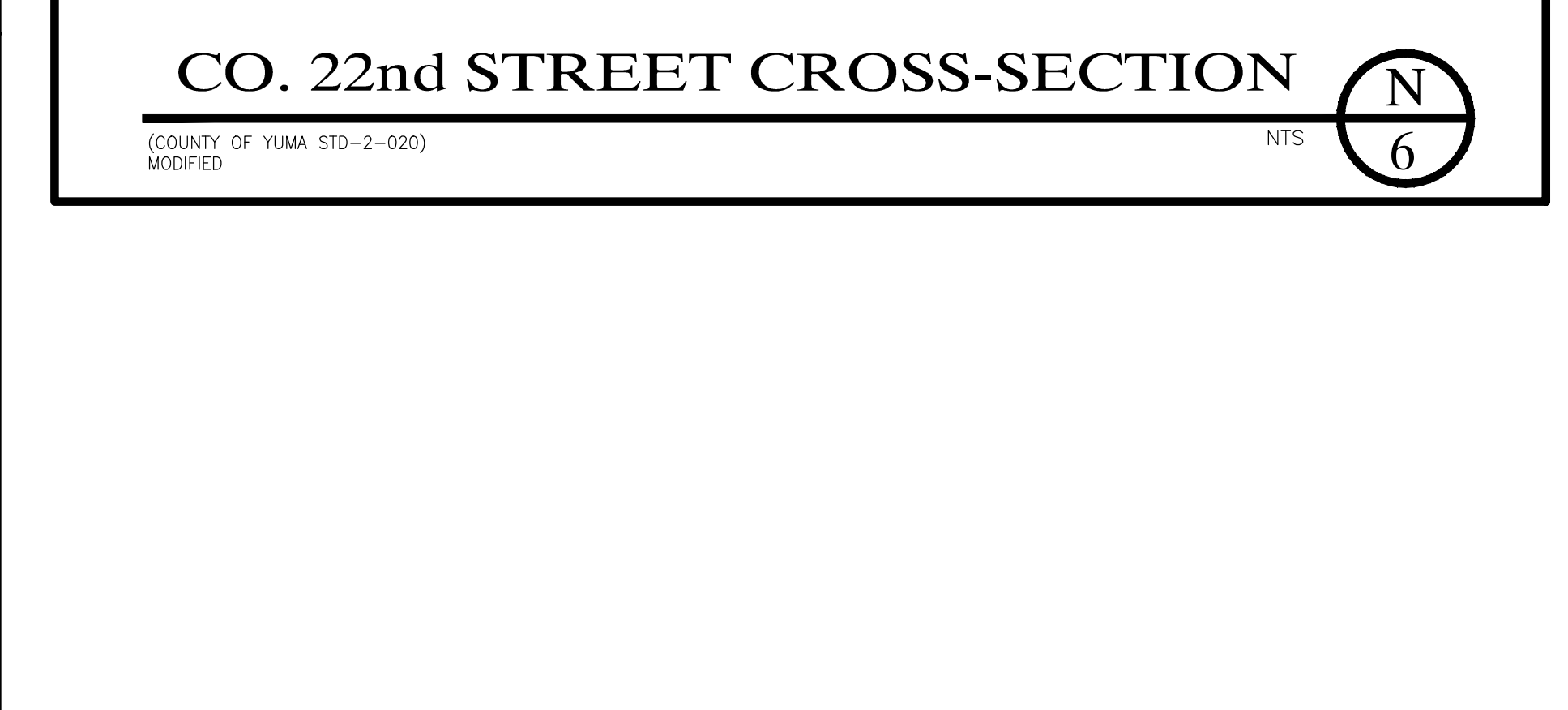
LOCAL RESIDENTIAL STREETS
 (YUMA COUNTY STD-2-050) NTS



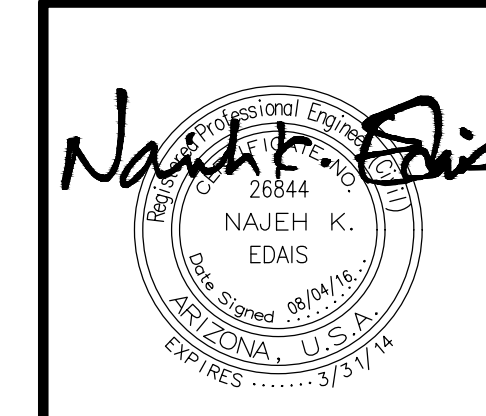
LOCAL RESIDENTIAL STREETS
 (YUMA COUNTY STD-2-050 MODIFIED) NTS



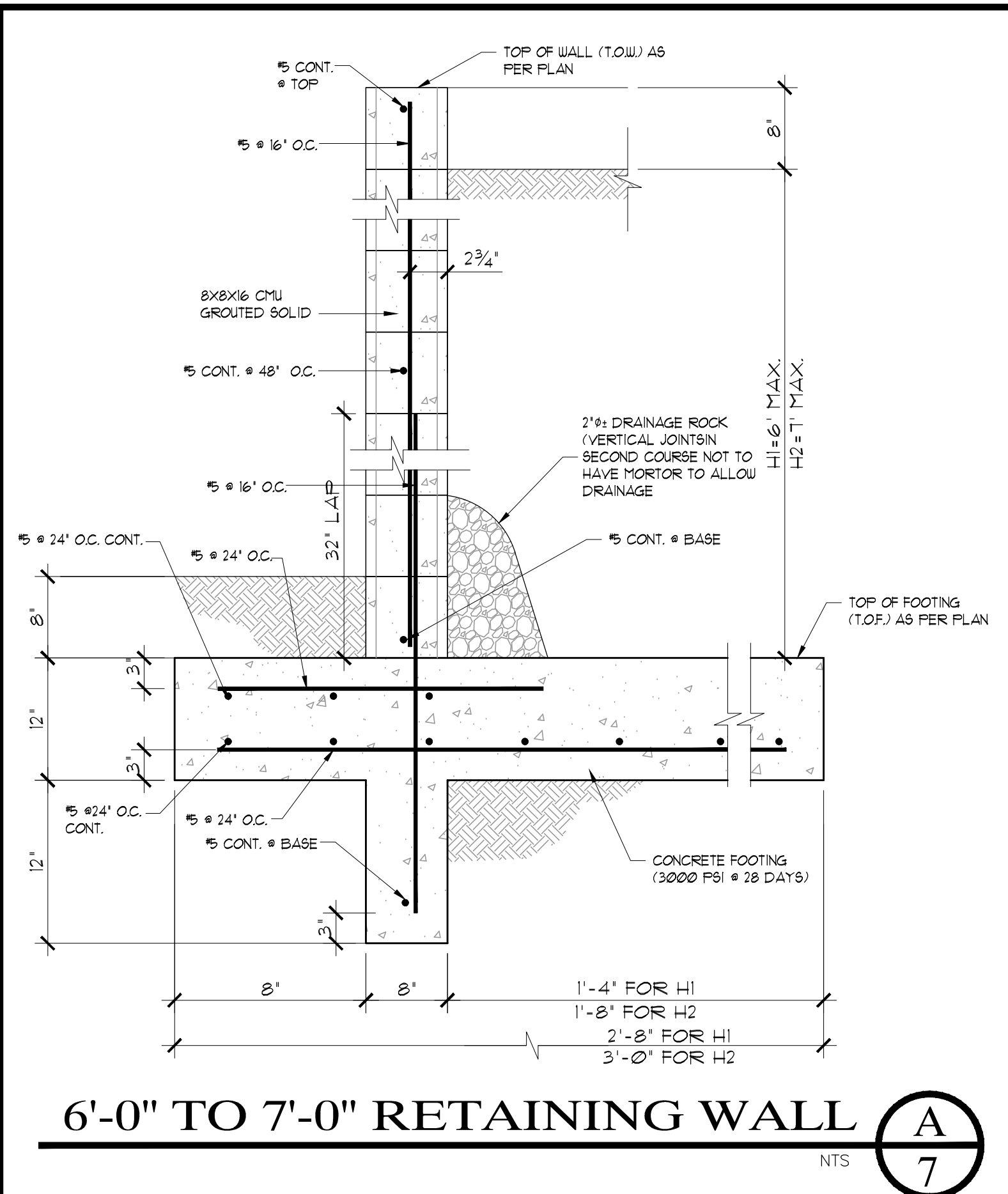
CO. 22TH STREET
 (YUMA COUNTY STD-2-020 MODIFIED) NTS



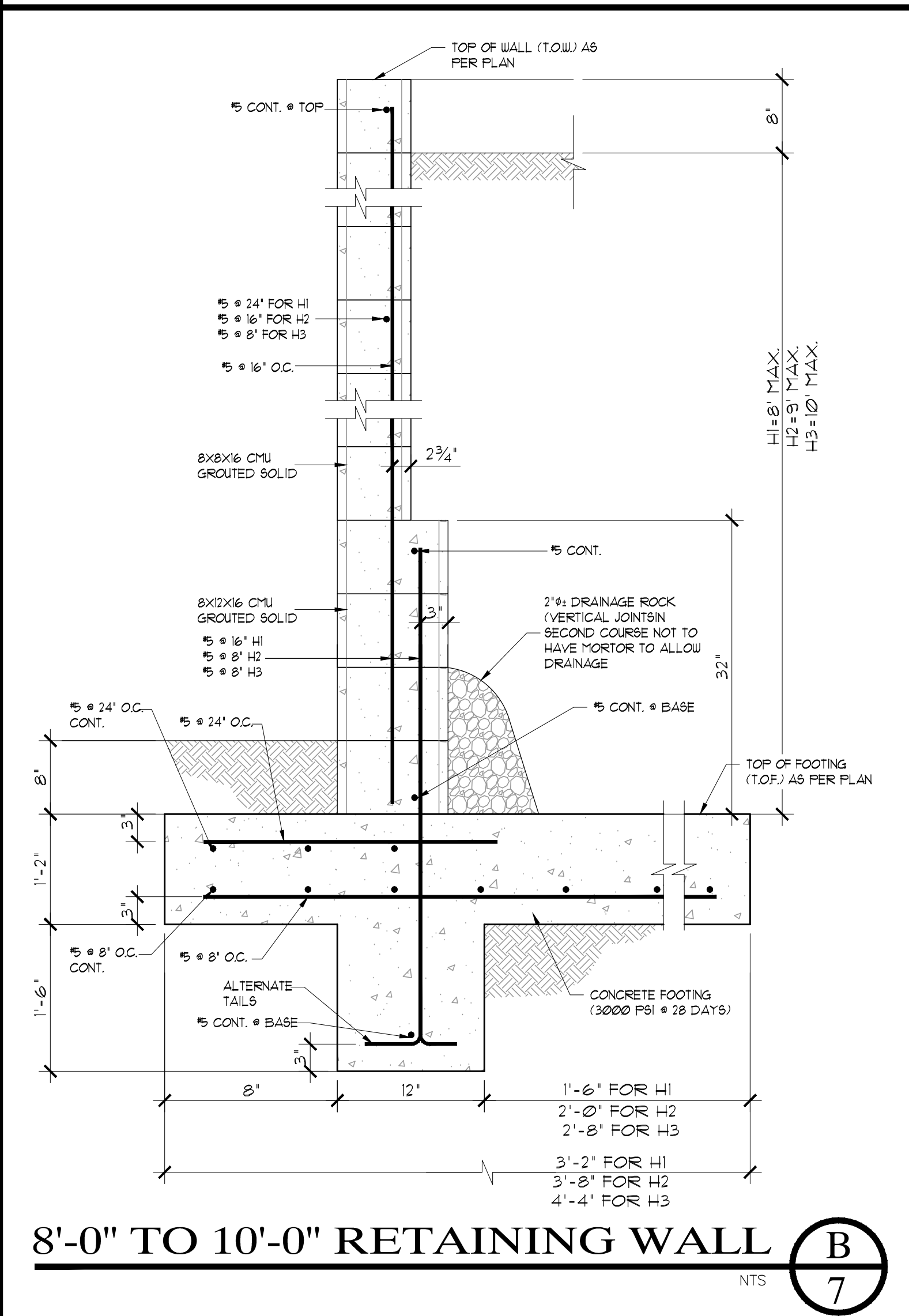
CO. 22nd STREET CROSS-SECTION
 (COUNTY OF YUMA STD-2-020) MODIFIED NTS



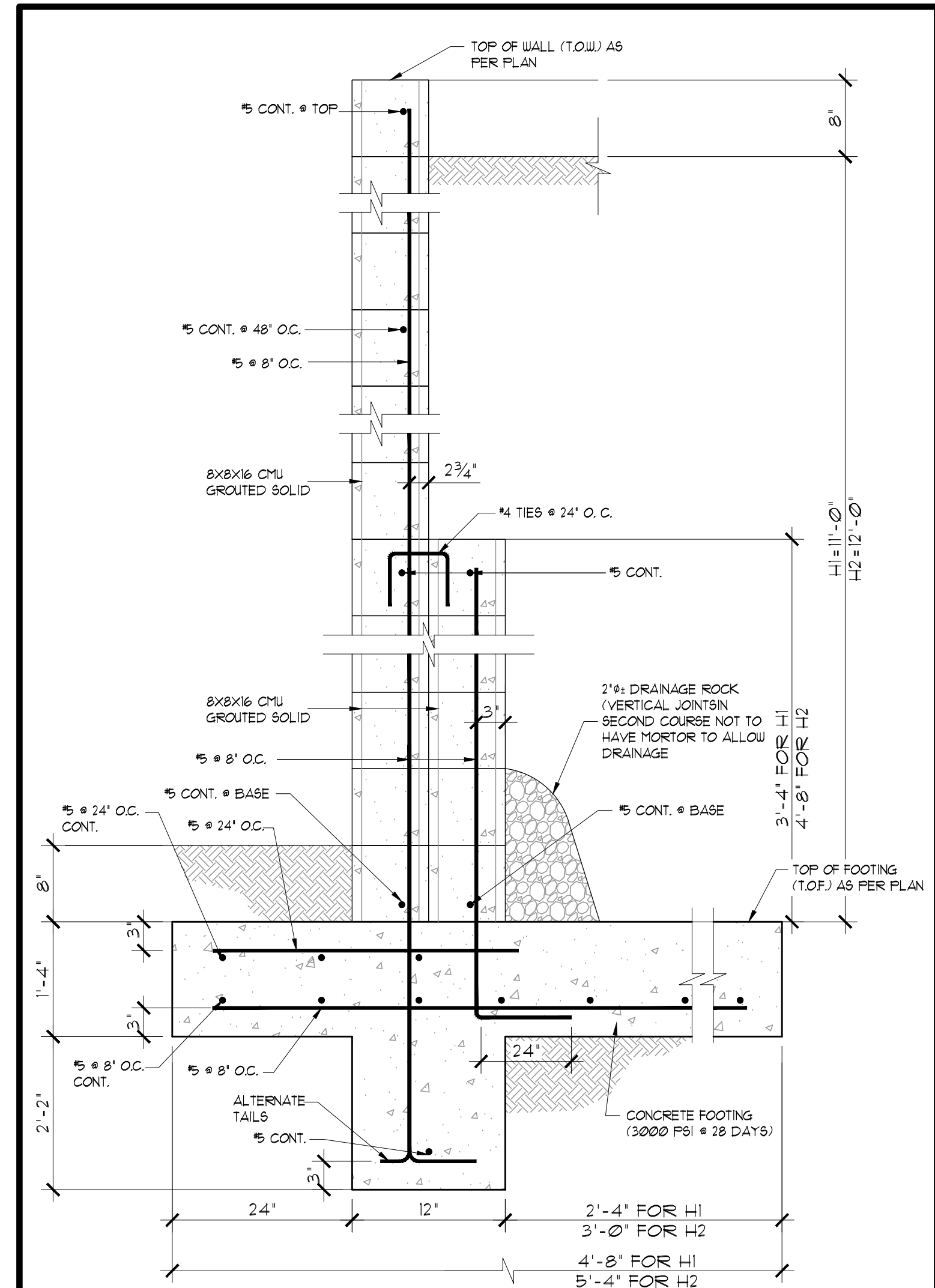
LAS QUINTAS DE SAN LUIS II SUBDIVISION
PAVING & GRADING DETAILS
 SCALE: AS SHOWN DESIGNED BY: N.K.E. CHECKED BY: N.K.E.
 DATE: JUL. 16 DRAWN BY: STAFF JOB No. 14-015
EDAIS Engineering, Inc.
 3075 S. Ave. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: EE@Edaisengineering.com



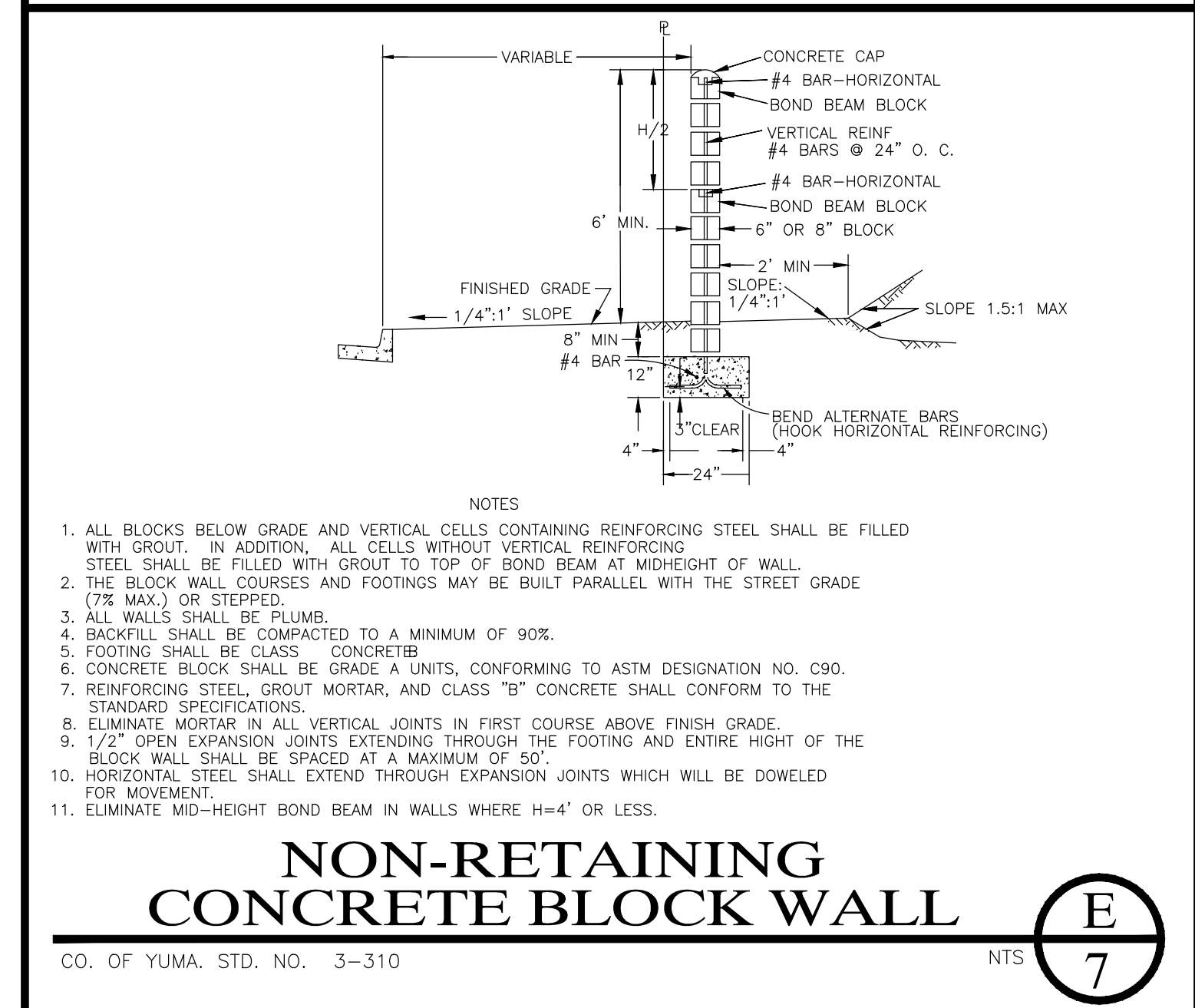
6'-0" TO 7'-0" RETAINING WALL (A) 7



8'-0" TO 10'-0" RETAINING WALL (B) 7

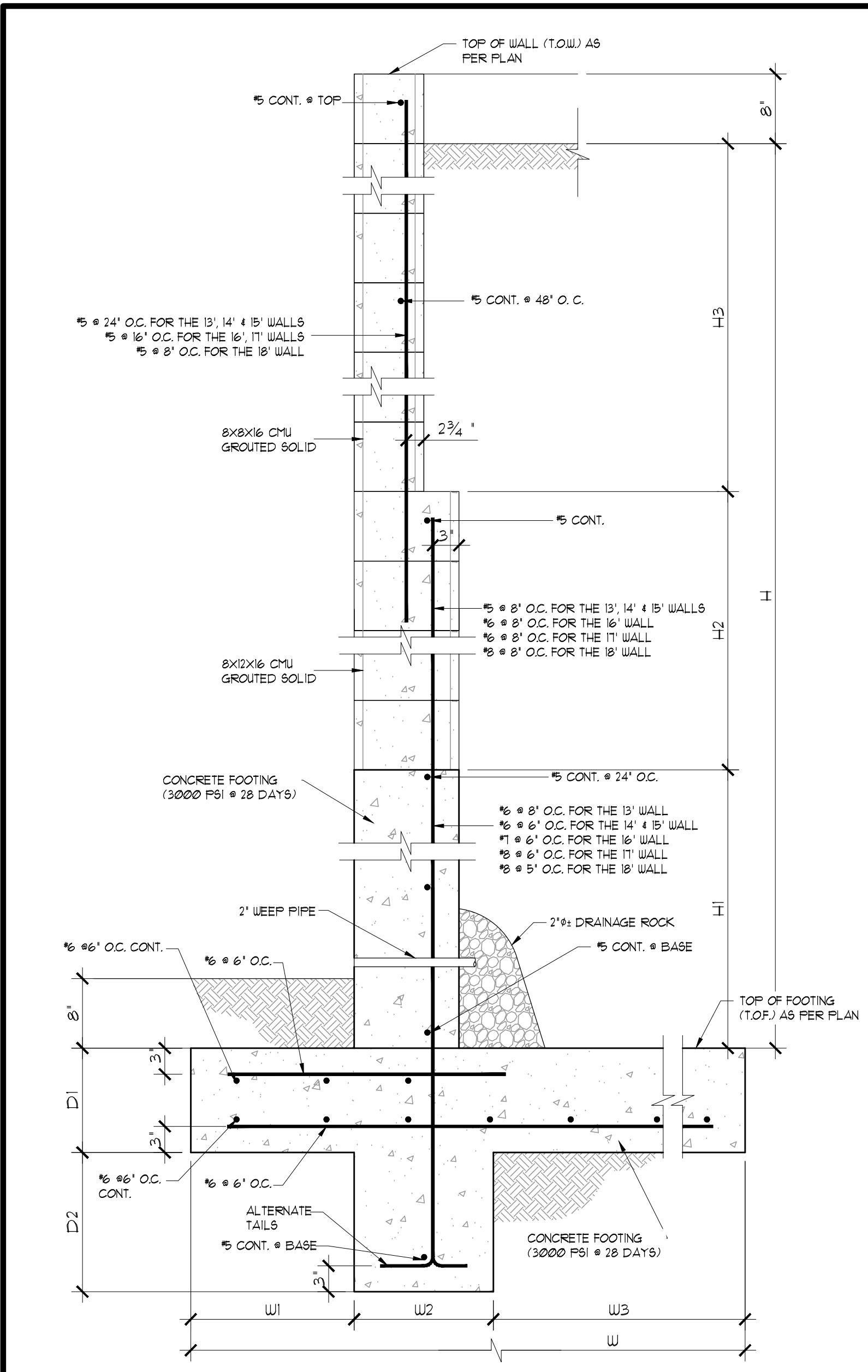


11'-0" TO 12'-0" RETAINING WALL (C) 7



NON-RETAINING CONCRETE BLOCK WALL (E) 7

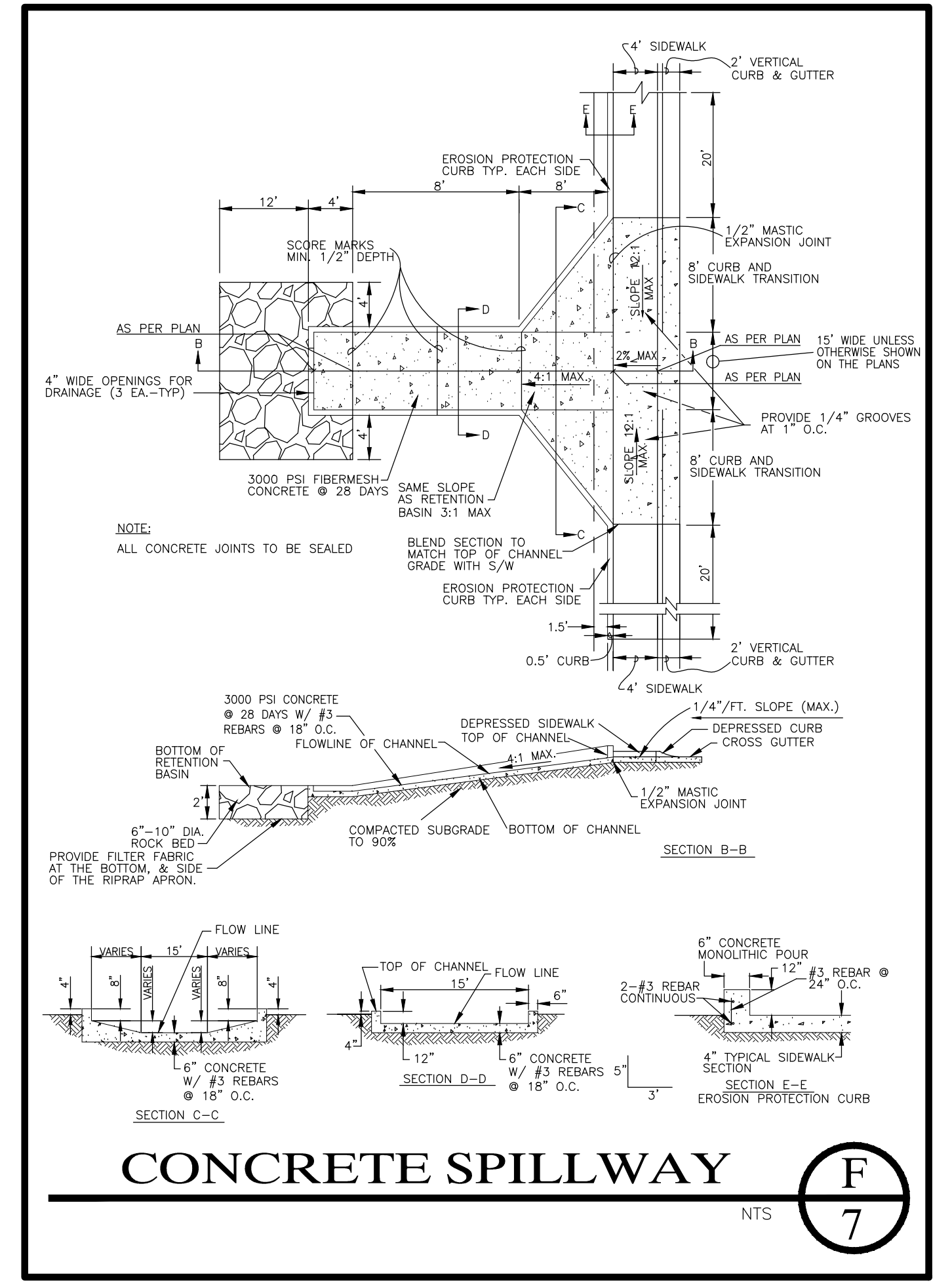
- NOTES:
1. ALL BLOCKS BELOW GRADE AND VERTICAL CELLS CONTAINING REINFORCING STEEL SHALL BE FILLED WITH GROUT. IN ADDITION, ALL CELLS WITHOUT VERTICAL REINFORCING STEEL SHALL BE FILLED WITH GROUT TO TOP OF BOND BEAM AT MIDHEIGHT OF WALL.
 2. THE BLOCK WALL COURSES AND FOOTINGS MAY BE BUILT PARALLEL WITH THE STREET GRADE (7% MAX.) OR STEPPED.
 3. ALL WALLS SHALL BE PLUMB.
 4. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90%.
 5. FOOTING SHALL BE CLASS "C" CONCRETE.
 6. CONCRETE BLOCK SHALL BE GRADE A UNITS, CONFORMING TO ASTM DESIGNATION NO. C90.
 7. REINFORCING STEEL, GROUT MORTAR, AND CLASS "B" CONCRETE SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
 8. ELIMINATE MORTAR IN ALL VERTICAL JOINTS IN FIRST COURSE ABOVE FINISH GRADE.
 9. 1/2" OPEN EXPANSION JOINTS EXTENDING THROUGH THE FOOTING AND ENTIRE HEIGHT OF THE BLOCK WALL SHALL BE SPACED AT A MAXIMUM OF 50'.
 10. HORIZONTAL STEEL SHALL EXTEND THROUGH EXPANSION JOINTS WHICH WILL BE DOWELED FOR MOVEMENT.
 11. ELIMINATE MID-HEIGHT BOND BEAM IN WALLS WHERE H=4' OR LESS.



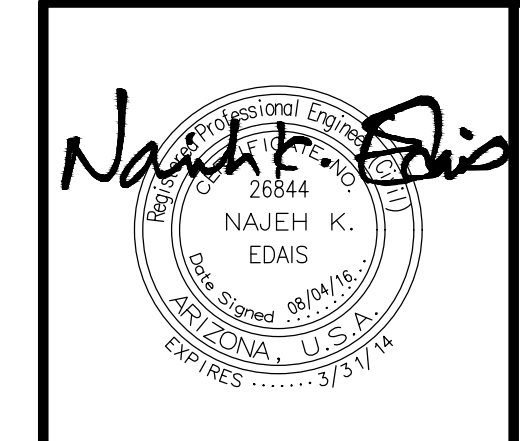
RETAINING WALL SCHEDULE

WALL	H1	H2	H3	W	W1	W2	W3	D1	D2
13'-0"	4'-0"	4'-0"	5'-8"	5'-9"	2'-0"	1'-0"	2'-9"	1'-6"	2'-6"
14'-0"	4'-0"	4'-0"	6'-8"	7'-0"	2'-6"	1'-0"	3'-6"	1'-6"	2'-6"
15'-0"	4'-8"	4'-8"	6'-4"	7'-0"	2'-6"	1'-0"	3'-6"	1'-8"	3'-0"
16'-0"	5'-4"	4'-0"	7'-4"	8'-0"	2'-6"	1'-0"	4'-6"	1'-8"	3'-0"
17'-0"	6'-0"	4'-0"	7'-8"	8'-4"	3'-6"	1'-0"	3'-10"	2'-0"	3'-6"
18'-0"	6'-8"	6'-0"	6'-0"	8'-10"	3'-6"	1'-0"	4'-4"	2'-0"	3'-8"

13'-0" TO 18'-0" RETAINING WALL (D) 7



CONCRETE SPILLWAY (F) 7



LAS QUINTAS DE SAN LUIS II SUBDIVISION

PAVING & GRADING DETAILS

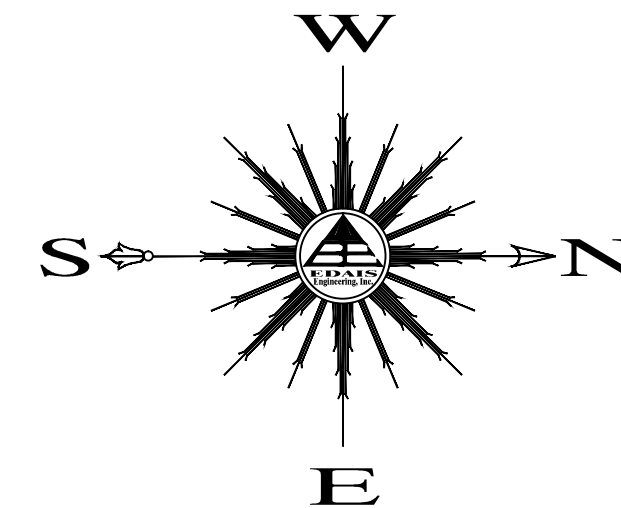
SCALE: AS SHOWN DESIGNED BY: N.K.E. CHECKED BY: N.K.E.
 DATE: JUL. 16 DRAWN BY: STAFF JOB No. 14-015

EDAIS Engineering, Inc.
 3075 S. Ave. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: EE@Edaisengineering.com

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LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- W — NEW PVC WATER MAIN
- S — NEW PVC SEWER LINE
- ②⑩ NEW LOT NUMBER
- ①⑧⑤ FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- NEW MANHOLE
- RIM. NEW RIM ELEVATION
- INV. NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- EXISTING WATER VALVE



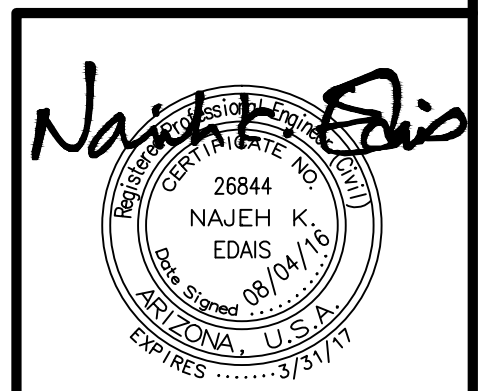
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WATER / SEWER CONSTRUCTION KEYNOTES

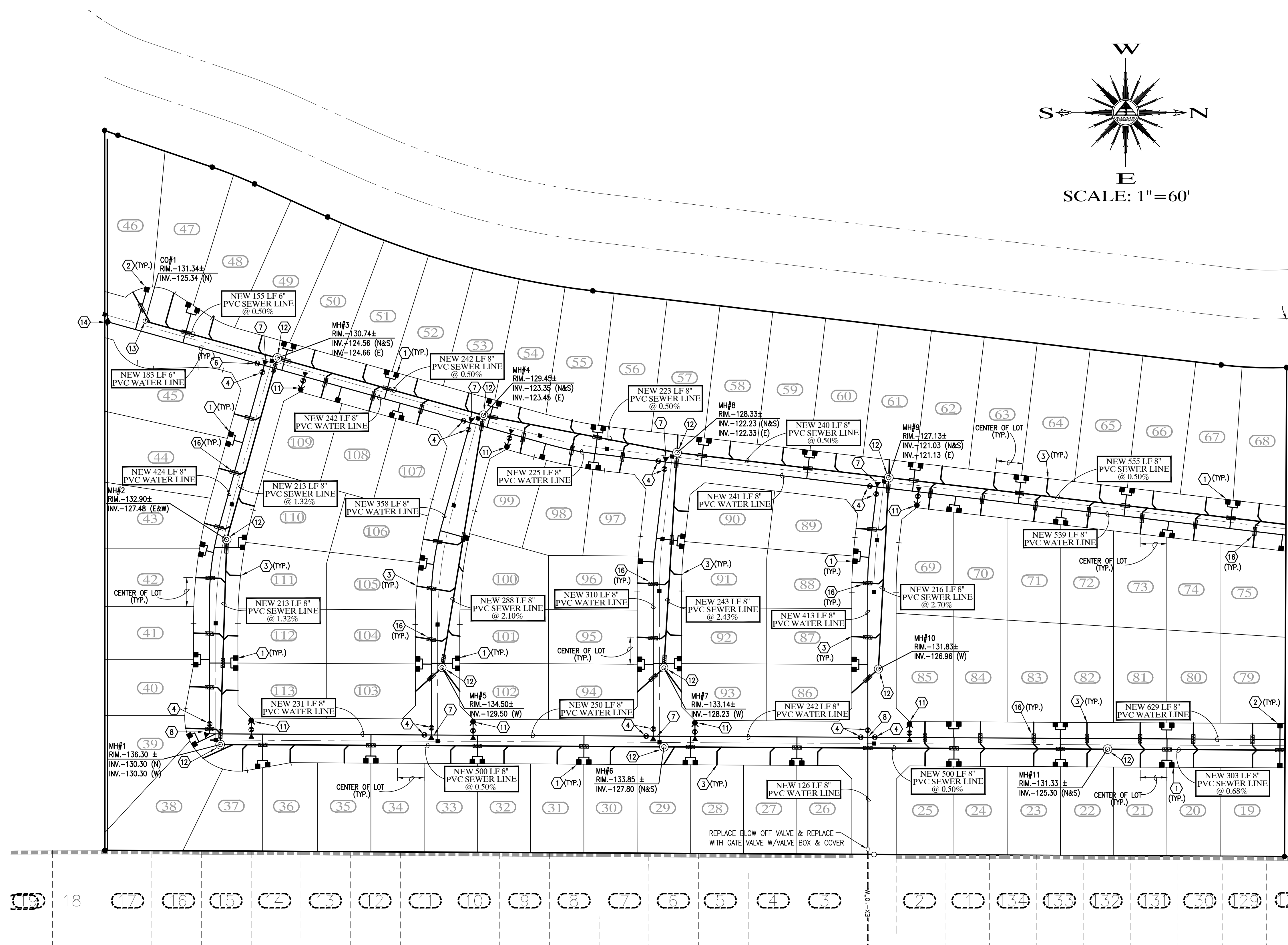
- ① INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A/B), (B/C), (C/D)
- ② INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A/B), (B/C), (C/D)
- ③ INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H/I)
- ④ INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P/Q), (Q/R)
- ⑤ INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P/Q), (Q/R)
- ⑥ INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P/Q), (Q/R)
- ⑦ INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O/P)
- ⑧ INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O/P)
- ⑨ INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O/P)
- ⑩ INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O/P)
- ⑪ INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (I/J)
- ⑫ CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (L/M)
- ⑬ CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M/N)
- ⑭ INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (M/N)
- ⑮ INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (G/H)
- ⑯ INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (I/J)
- ⑰ INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S/T)
- ⑱ INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O/P)
- ⑲ INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O/P)
- ⑳ CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- ㉑ INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (P/Q)

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



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BIENESTAR ESTATES No. 7A
BOOK 18, PAGE 11, Y.C.R.

LAS QUINTAS DE SAN LUIS
SUBDIVISION PHASE 2
BK 17, PG. 85, Y.C.R.

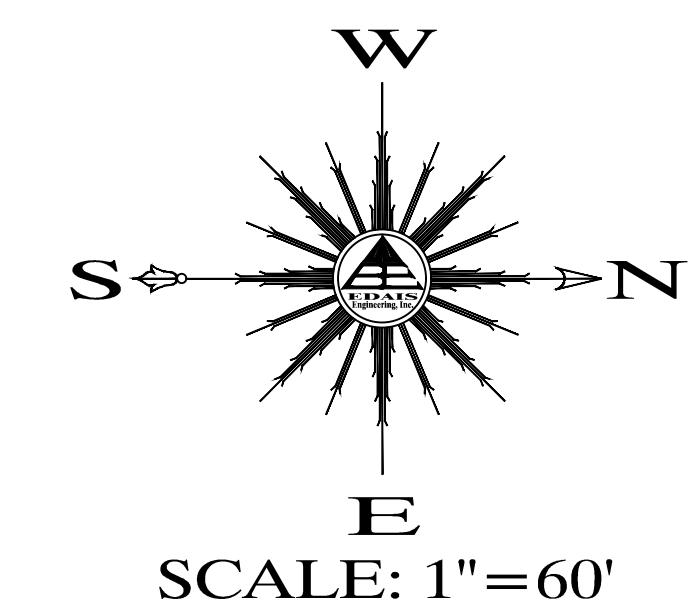
**LAS QUINTAS DE SAN LUIS 2
SUBDIVISION**

WATER & SEWER PLAN

SCALE: AS SHOWN DESIGNED BY: NKE CHECKED BY: NKE
DATE: AUG '16" DRAWN BY: STAFF JOB No. 14-015

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(928) 344-5050
Yuma, Arizona 85365
FAX (928) 341-1075
EMAIL: najeh@Edaisgroup.com

SHEET



LEGEND

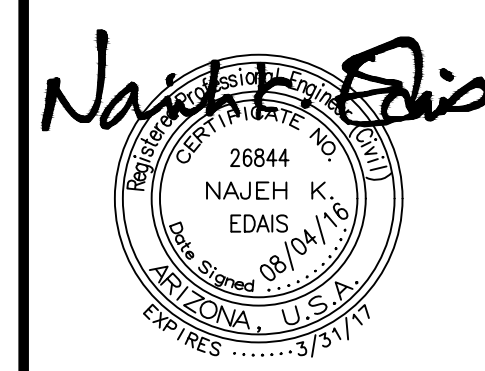
- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- NEW PVC WATER MAIN
- NEW PVC SEWER LINE
- ⓪ (20) NEW LOT NUMBER
- ⓪ (188) FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- ⊙ NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH NEW MANHOLE
- RIM. NEW RIM ELEVATION
- INV. NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- ⊗ EXISTING WATER VALVE

WATER / SEWER CONSTRUCTION KEYNOTES

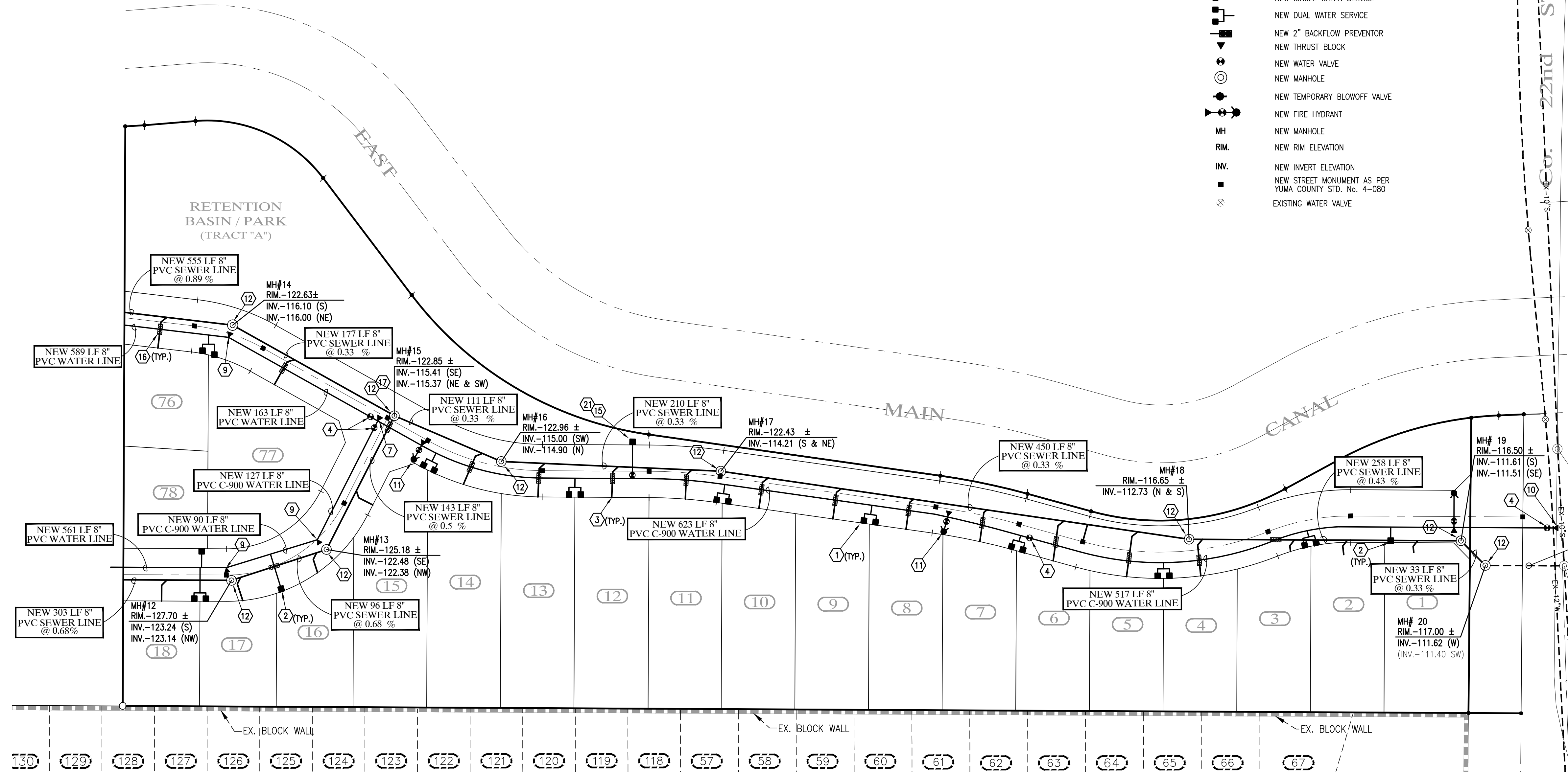
- 1 INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A) (B) (P) (14) (14) (14)
- 2 INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A) (B) (P) (14) (14) (14)
- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (14)
- 4 INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P) (15) (16)
- 5 INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P) (15) (16)
- 6 INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P) (15) (16)
- 7 INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 8 INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 9 INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 10 INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 11 INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (15)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M) (15)
- 14 INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N) (15)
- 15 INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (O) (15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (16)
- 17 INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S) (16)
- 18 INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 19 INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21 INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (P) (14)

UTILITY WARNING

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LAS QUINTAS DE SAN LUIS SUBDIVISION PHASE 1 BK 17, PG. 84, Y.C.R.

LAS QUINTAS DE SAN LUIS II SUBDIVISION
WATER & SEWER PLAN

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: JUL 16	DRAWN BY: STAFF	JOB No. 14-015

Edais Engineering, Inc.
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 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najeh@edaisgroup.com

SHEET 9

WATER / SEWER CONSTRUCTION KEYNOTES

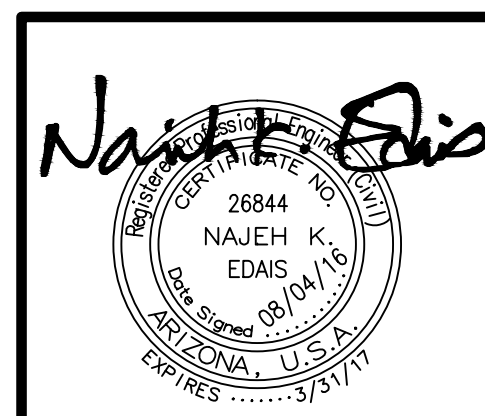
- 1 INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (E14)
- 2 INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (E14)
- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H14)
- 4 INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 5 INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 6 INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 7 INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 8 INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 9 INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 10 INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 11 INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (I15)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 14 INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N15)
- 15 INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (G15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T16)
- 17 INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S16)
- 18 INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 19 INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21 INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (T17)

SEWER CONSTRUCTION KEYNOTES

- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H14)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T16)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE

LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- NEW PVC WATER MAIN
- W — NEW PVC SEWER LINE
- S — NEW LOT NUMBER
- (20) — FUTURE LOT NUMBER
- (18S) — NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH — NEW MANHOLE
- RIM. — NEW RIM ELEVATION
- INV. — NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- EXISTING WATER VALVE



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LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

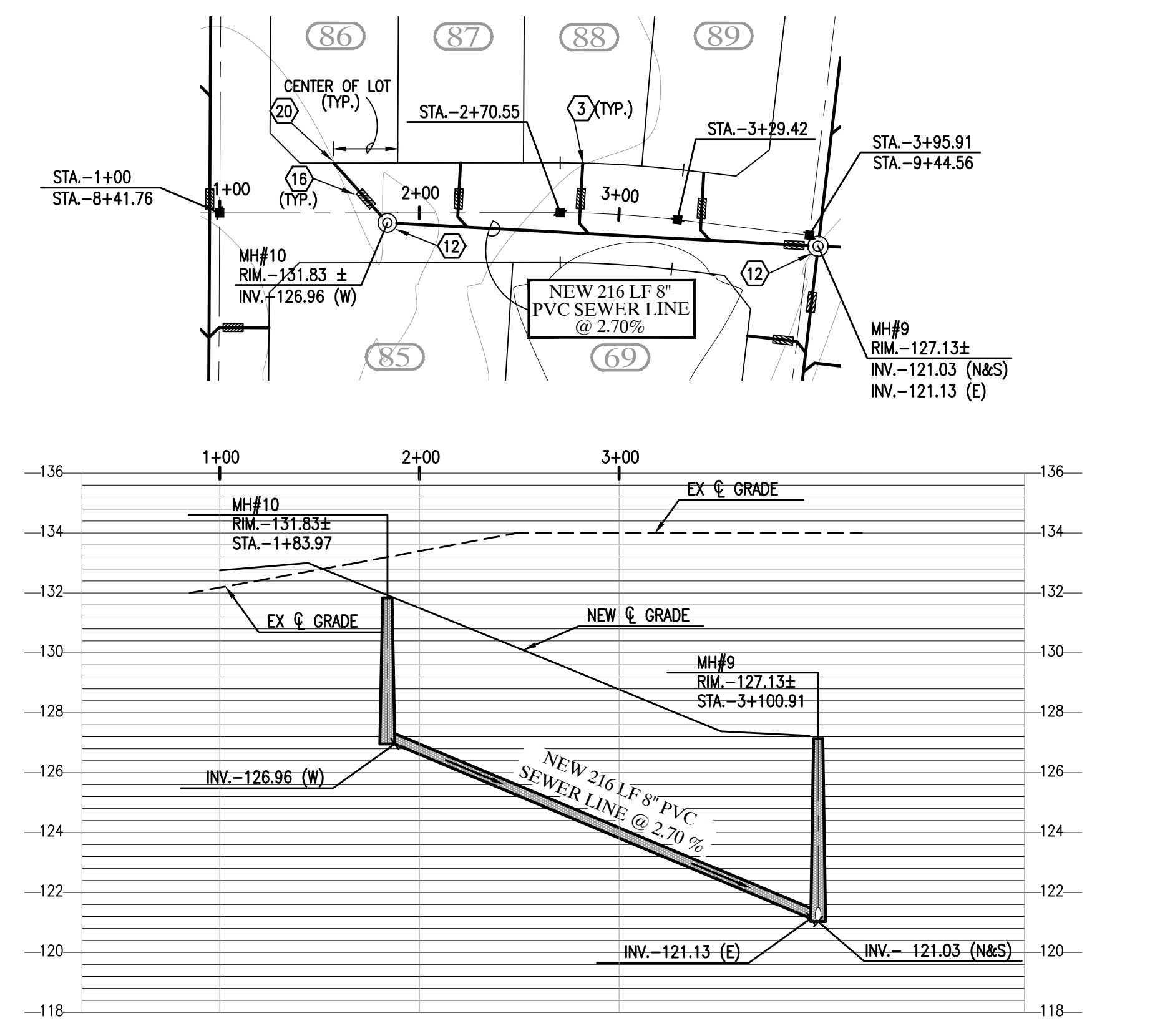
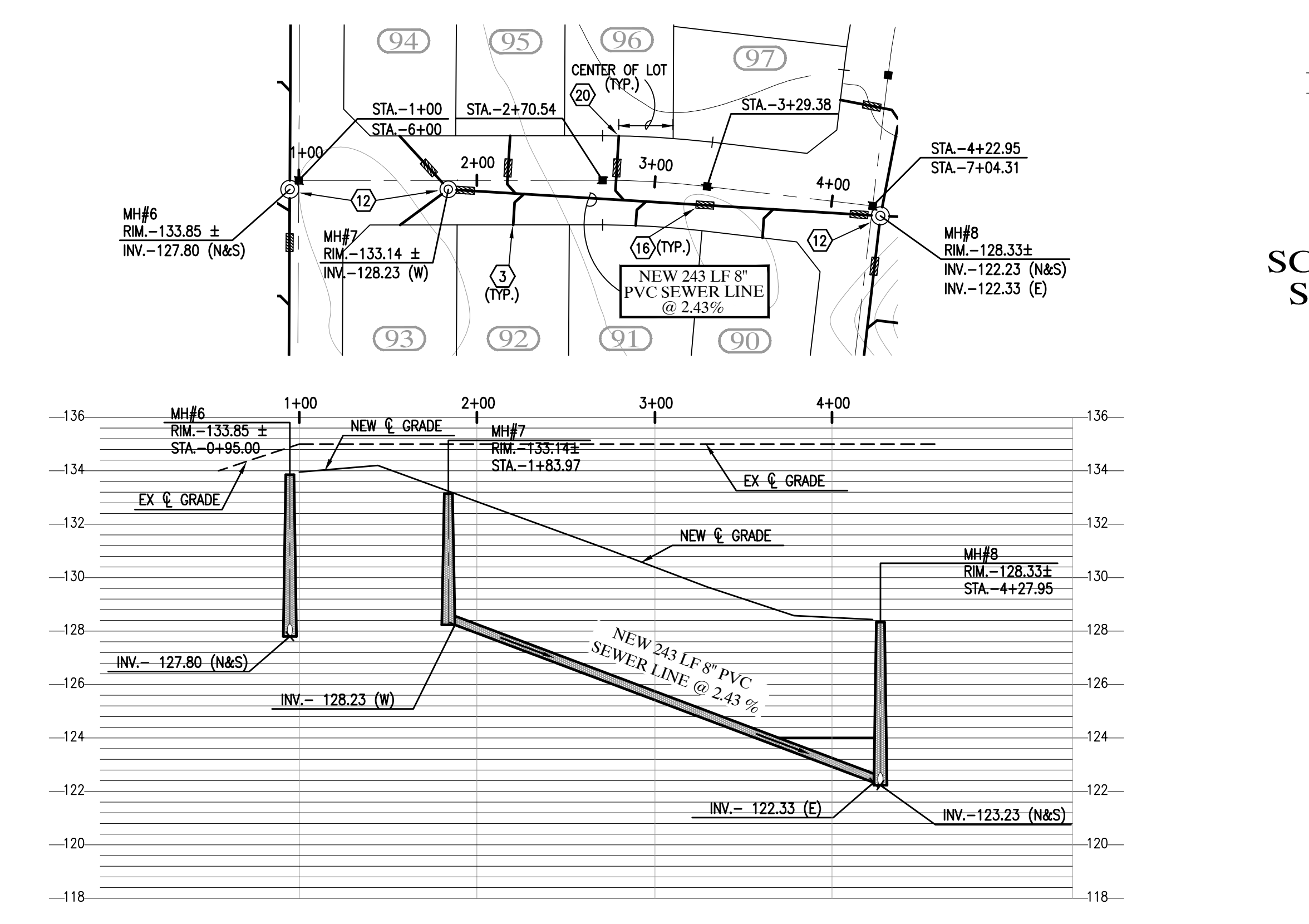
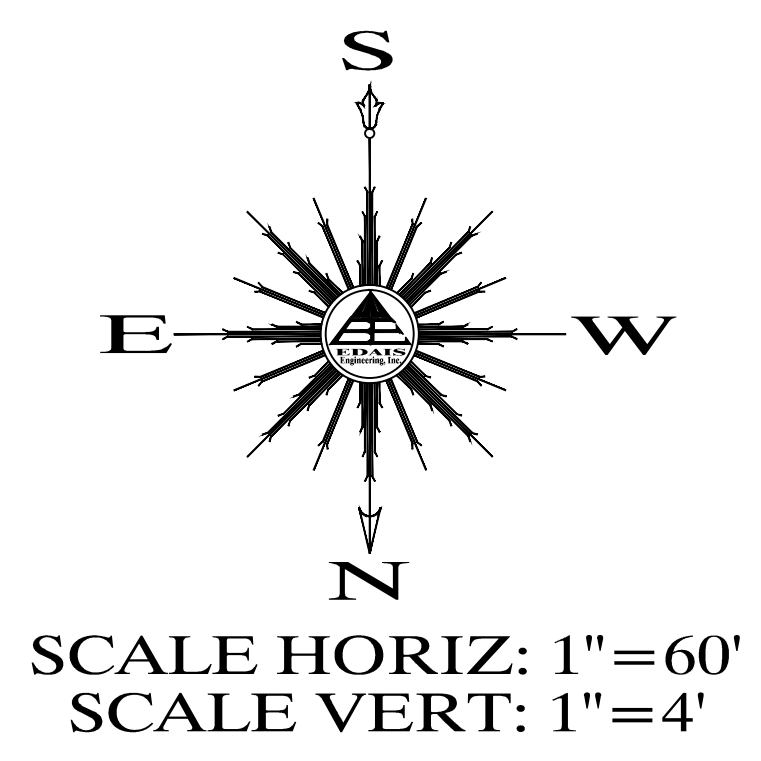
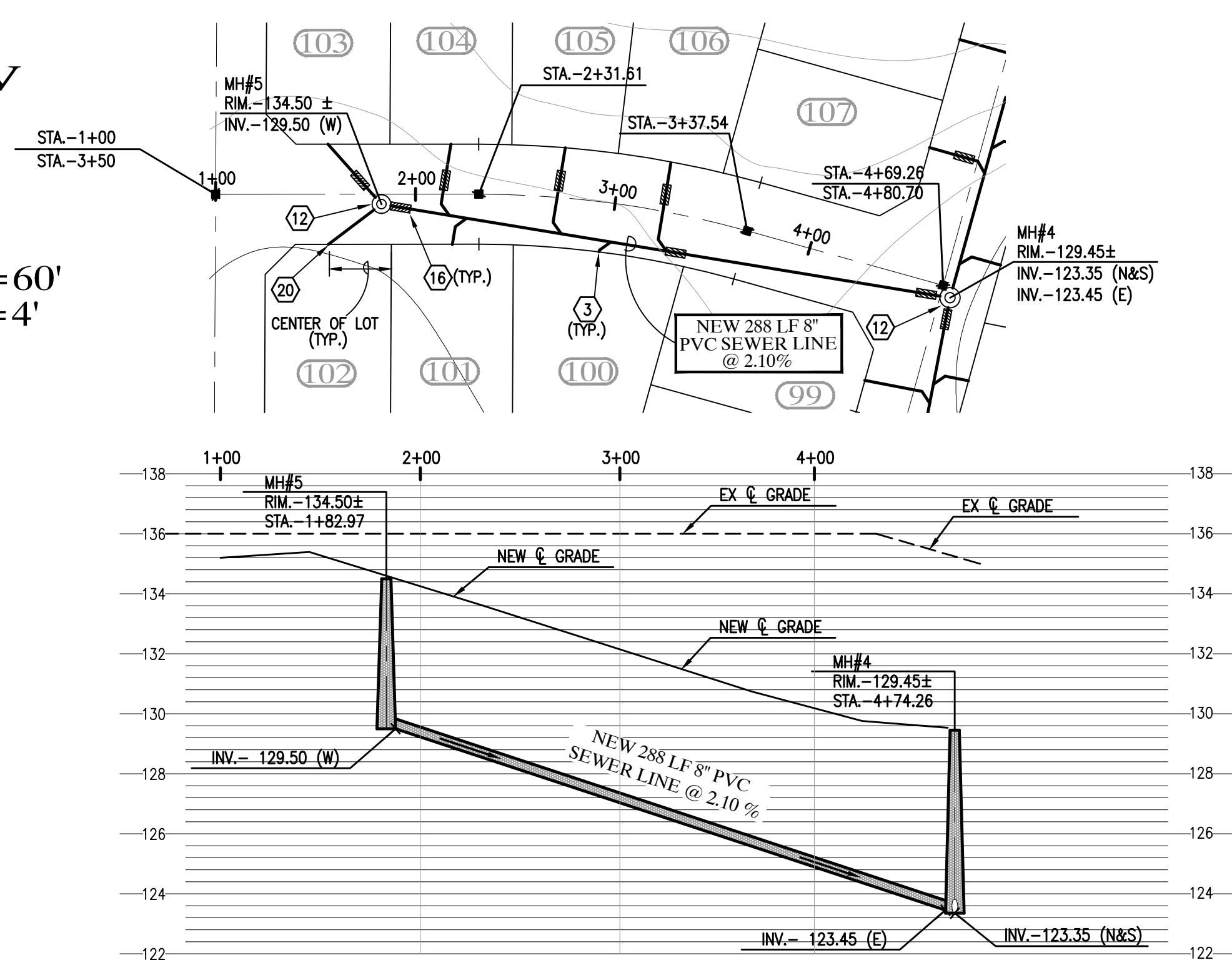
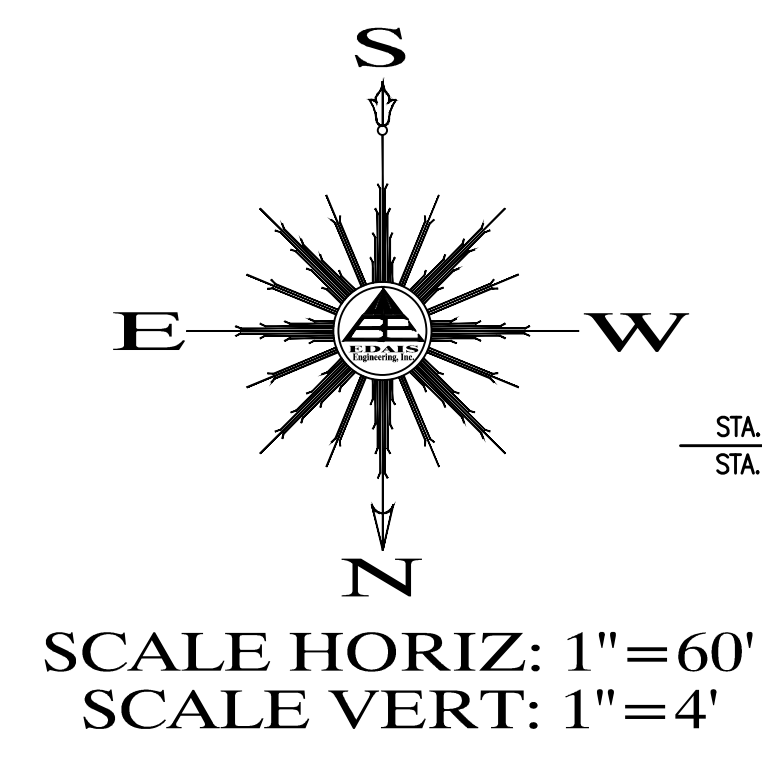
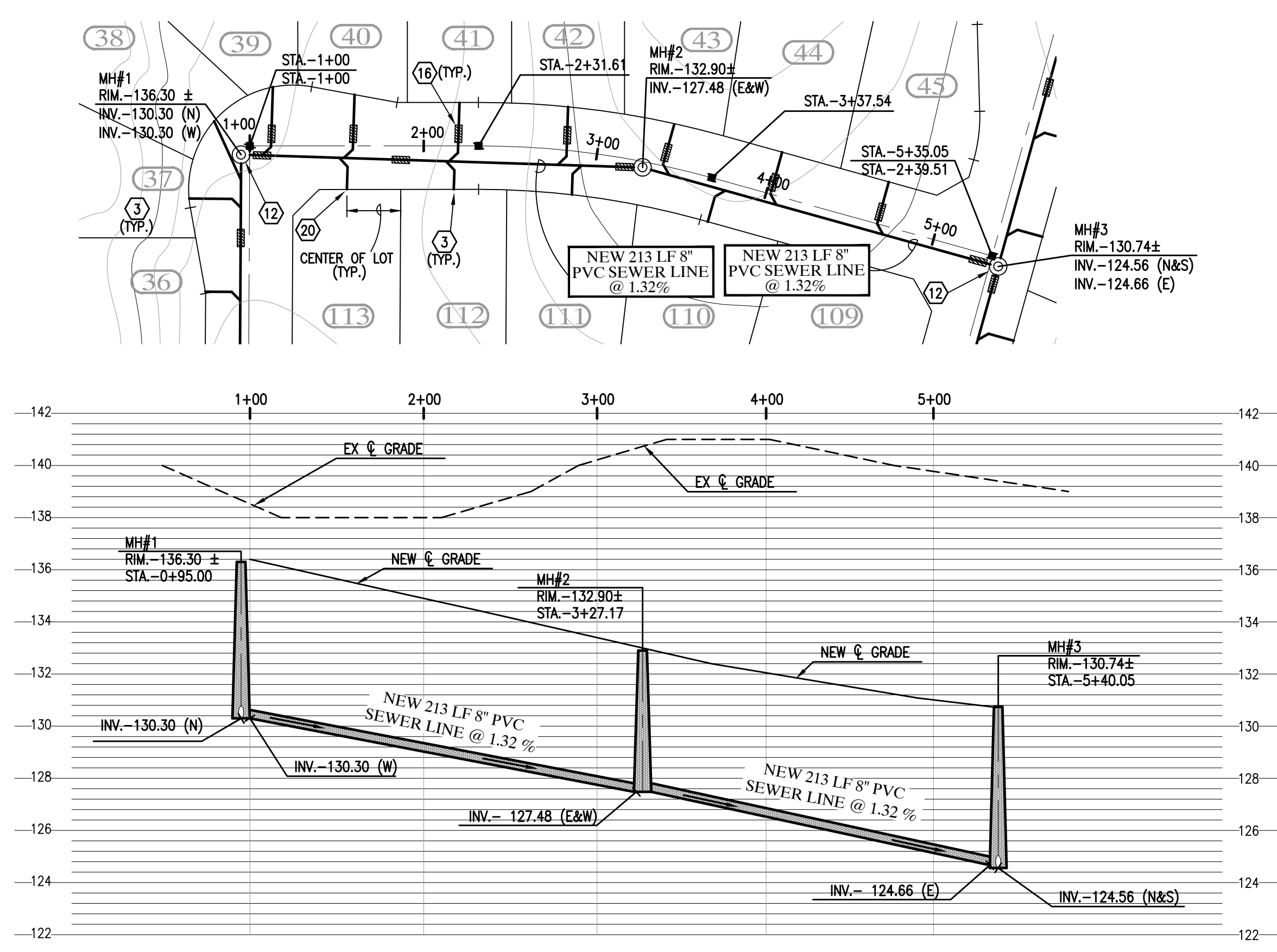
SEWER PLAN & PROFILES

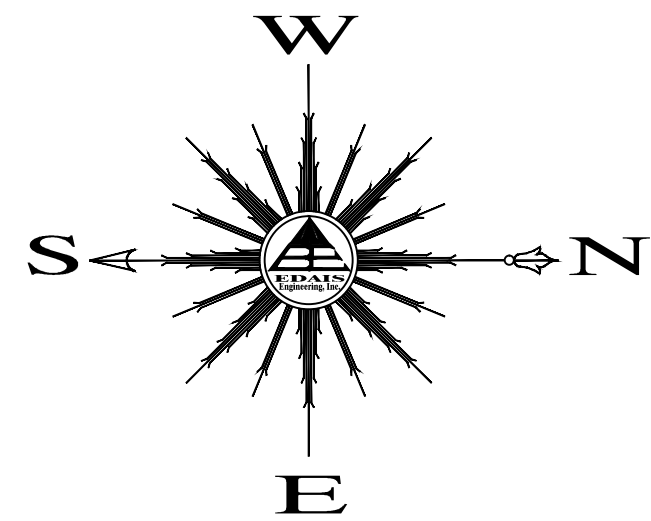
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DATE: JUN. '16	DRAWN BY: LPR	JOB No. 14-015

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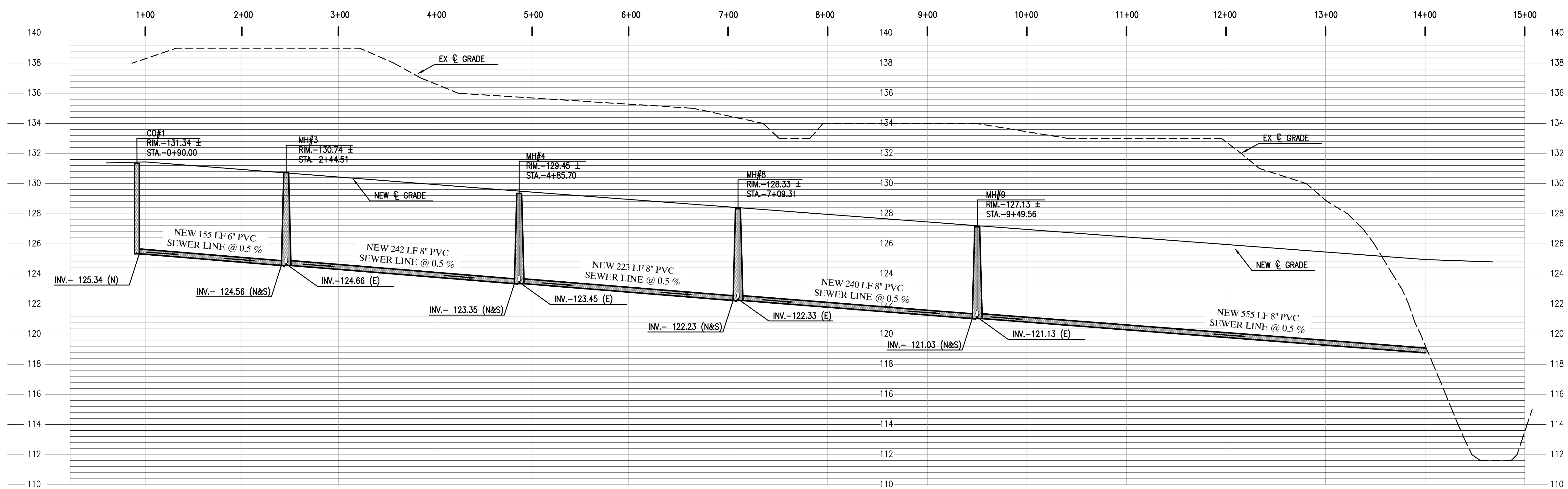
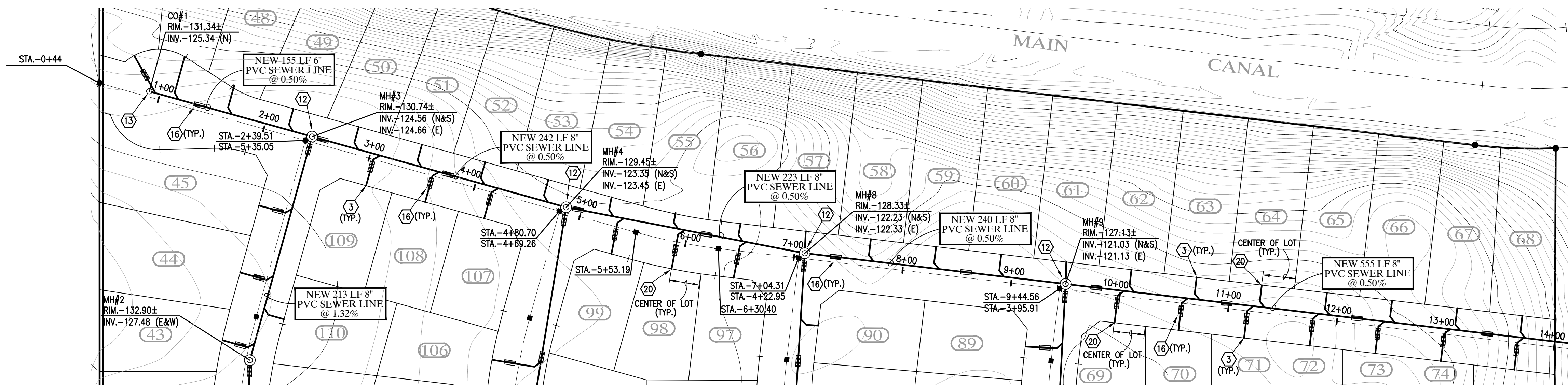
3075 S. AVE. 4E
Yuma, Arizona 85365
(928) 344-3566 FAX (928) 341-1075
EMAIL: najeh@Edaisgroup.com

SHEET 10





SCALE HORIZ: 1"=60'
SCALE VERT: 1"=4'



WATER / SEWER CONSTRUCTION KEYNOTES

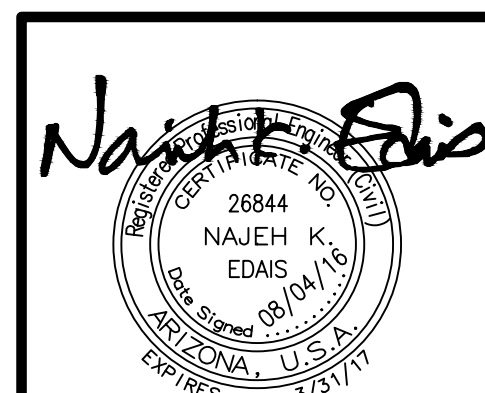
- 1 INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (E14)
- 2 INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (E14)
- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H14)
- 4 INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 5 INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 6 INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 7 INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 8 INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 9 INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 10 INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 11 INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (I15)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 14 INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N15)
- 15 INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (G15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (L16)
- 17 INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S16)
- 18 INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 19 INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21 INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (I14)

SEWER CONSTRUCTION KEYNOTES

- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H14)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (L16)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE

LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- W — NEW PVC WATER MAIN
- S — NEW PVC SEWER LINE
- (20) NEW LOT NUMBER
- (188) FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH — NEW MANHOLE
- RIM — NEW RIM ELEVATION
- INV. — NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- EXISTING WATER VALVE



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LAS QUINTAS DE SAN LUIS 2
SUBDIVISION

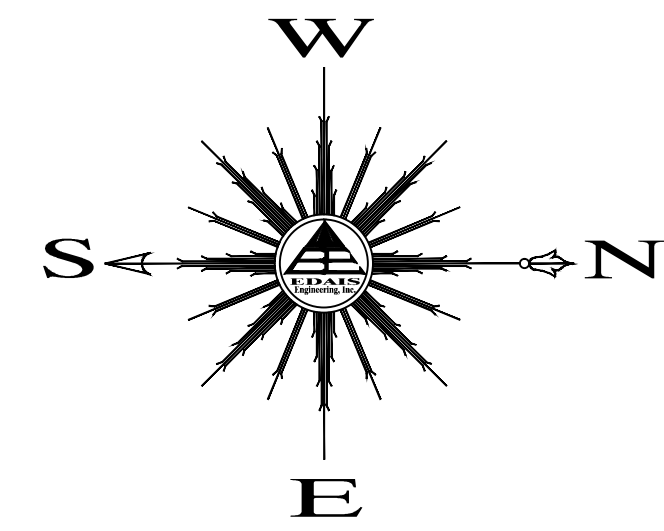
SEWER PLAN & PROFILES

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: JUN. '16	DRAWN BY: LPR	JOB No. 14-015

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Engineering, Inc.

3075 S. AVE. 4E
Yuma, Arizona 85365
(928) 344-3566 FAX (928) 341-1075
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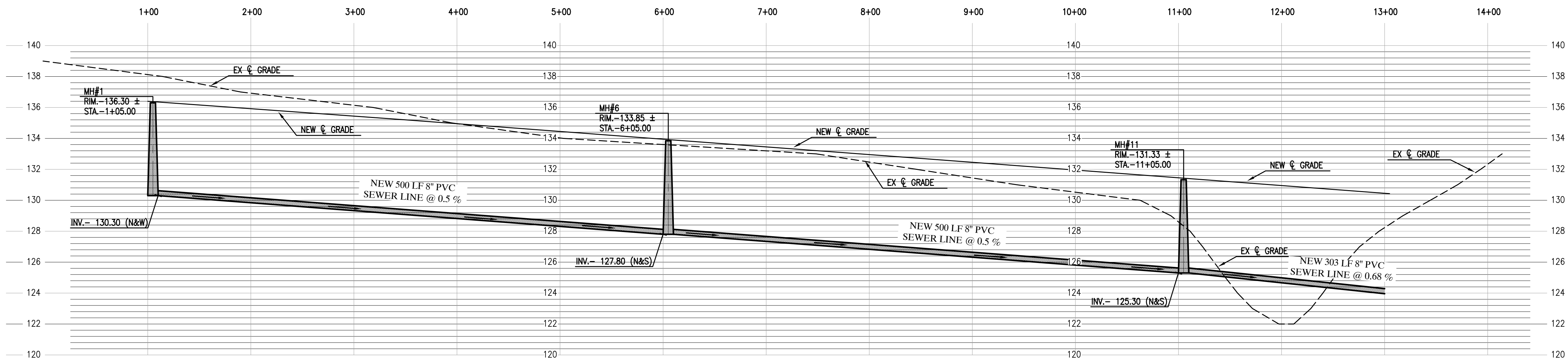
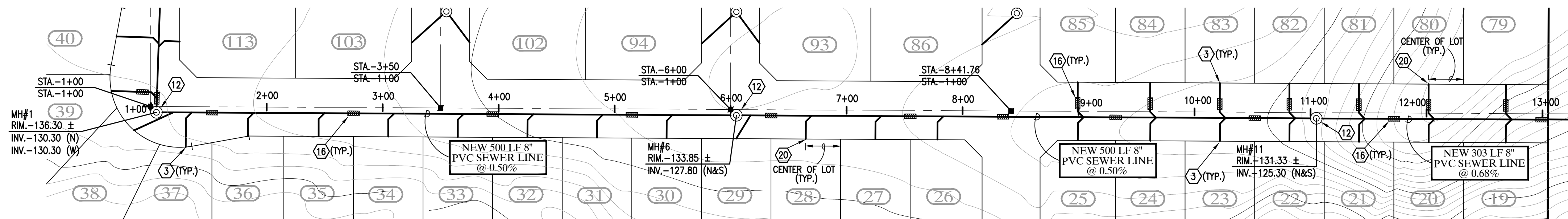
SHEET
11



SCALE HORIZ: 1"=60'
SCALE VERT: 1"=4'

WATER / SEWER CONSTRUCTION KEYNOTES

- 1 INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (E14)
- 2 INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (E14)
- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H14)
- 4 INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 5 INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 6 INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (O16)
- 7 INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 8 INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 9 INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 10 INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 11 INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (I15)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 14 INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N15)
- 15 INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (G15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T16)
- 17 INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S16)
- 18 INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 19 INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21 INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (I14)

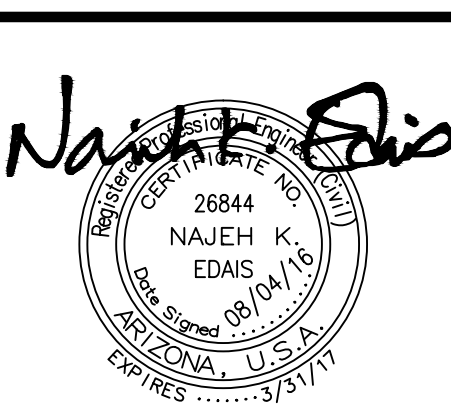


SEWER CONSTRUCTION KEYNOTES

- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H14)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T16)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE

LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- W — NEW PVC WATER MAIN
- S — NEW PVC SEWER LINE
- (20) NEW LOT NUMBER
- (188) FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH — NEW MANHOLE
- RIM. — NEW RIM ELEVATION
- INV. — NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- EXISTING WATER VALVE



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**LAS QUINTAS DE SAN LUIS 2
SUBDIVISION**

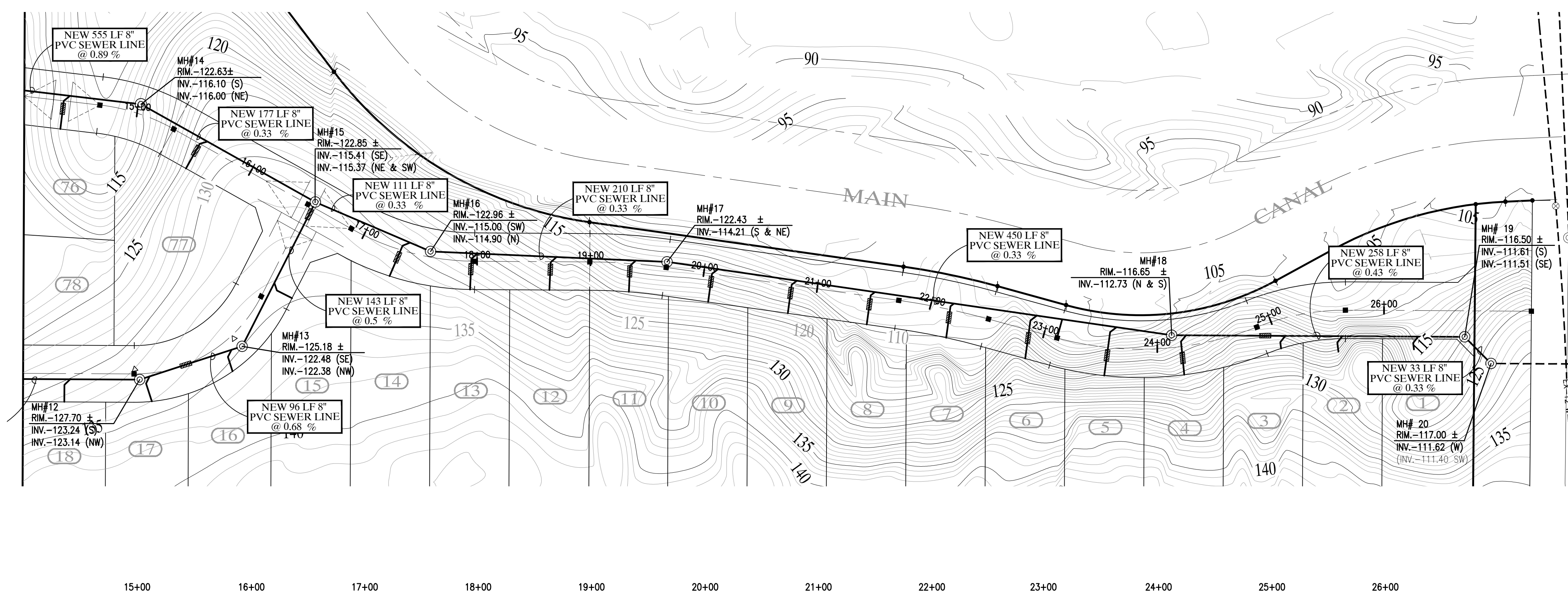
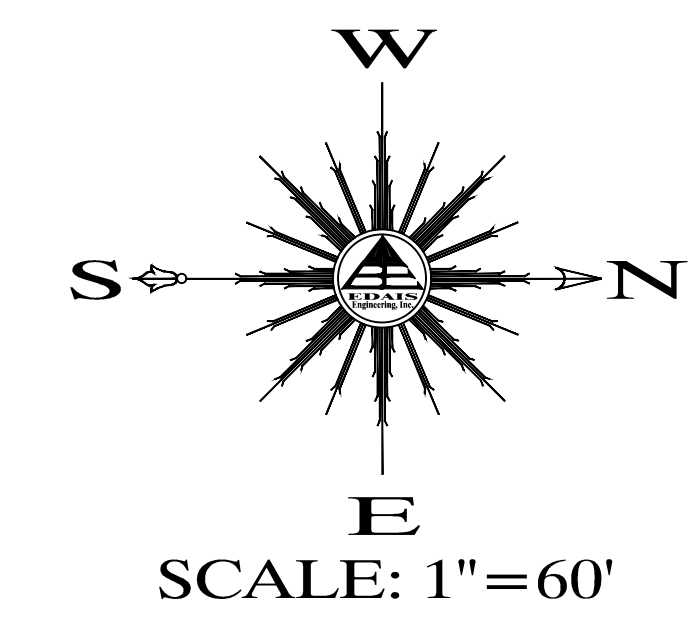
SEWER PLAN & PROFILES

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: JUN. '16	DRAWN BY: LPR	JOB No. 14-015

Edais Engineering, Inc.

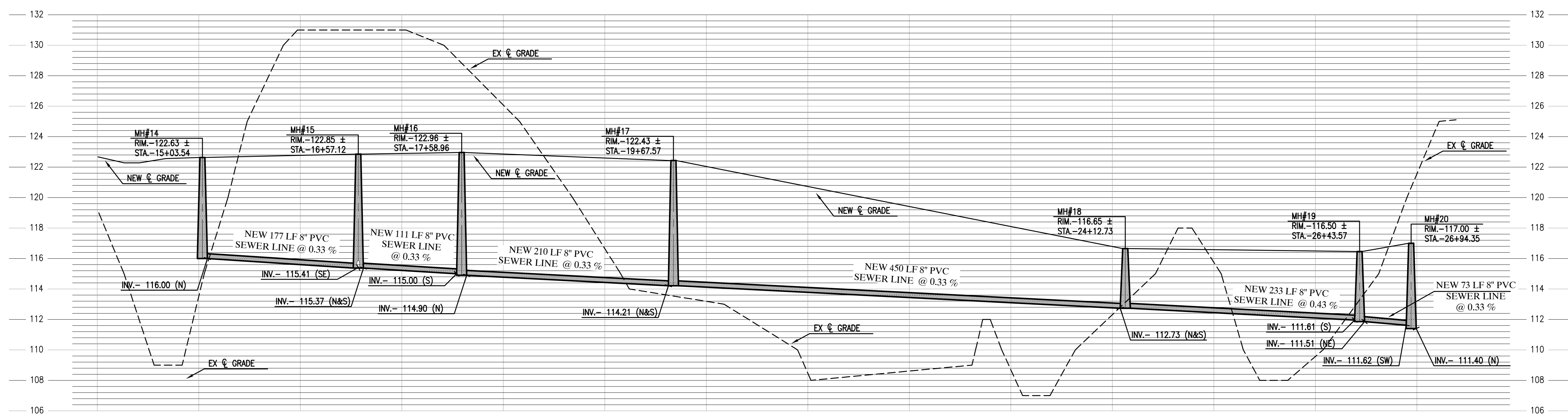
3075 S. AVE. 4E
Yuma, Arizona 85365
(928) 344-3566 FAX (928) 341-1075
EMAIL: najeh@Edaisgroup.com

12



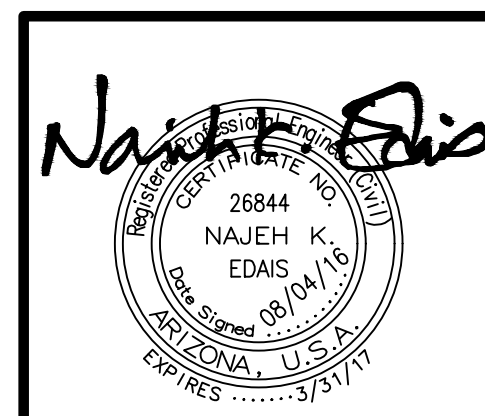
WATER / SEWER CONSTRUCTION KEYNOTES

- 1) INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (P14)
- 2) INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (P14)
- 3) INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (T14)
- 4) INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (P16)
- 5) INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (P16)
- 6) INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P15) (P16)
- 7) INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 8) INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 9) INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 10) INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O12)
- 11) INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (L15)
- 12) CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (L15)
- 13) CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 14) INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N15)
- 15) INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (O15)
- 16) INSTALL 14' MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T16)
- 17) INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S16)
- 18) INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 19) INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 20) CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21) INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (P14)



UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



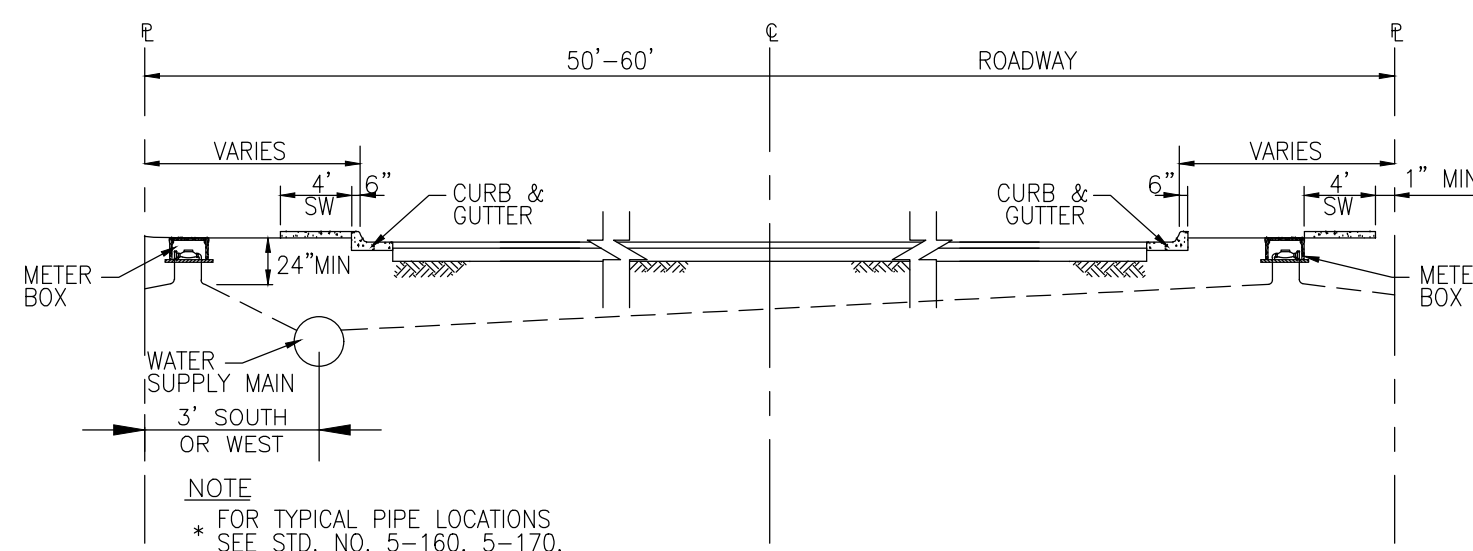
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LAS QUINTAS DE SAN LUIS II SUBDIVISION
SEWER PLAN & PROFILES

SCALE: AS SHOWN DESIGNED BY: NKE CHECKED BY: NKE
 DATE: JUL. 16 DRAWN BY: STAFF JOB No. 14-015

EDAIS Engineering, Inc.
 3075 S. AVE. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najeh@edaisgroup.com

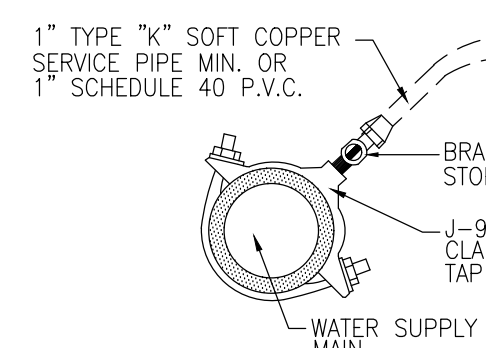
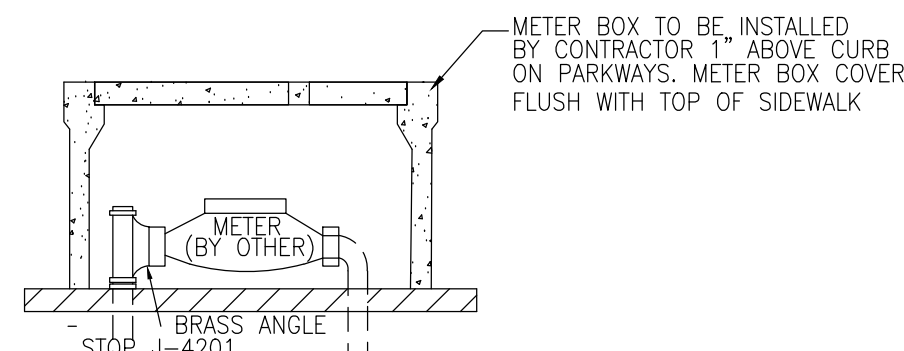
SHEET 13



TYPICAL METER BOX LOCATIONS AND SERVICE CONNECTION

NOTE:
 • FOR TYPICAL PIPE LOCATIONS SEE STD. NO. 5-160, 5-170, 5-180 & 5-190
 • COPPER SERVICE LATERAL OR AS SHOWN ON PLANS

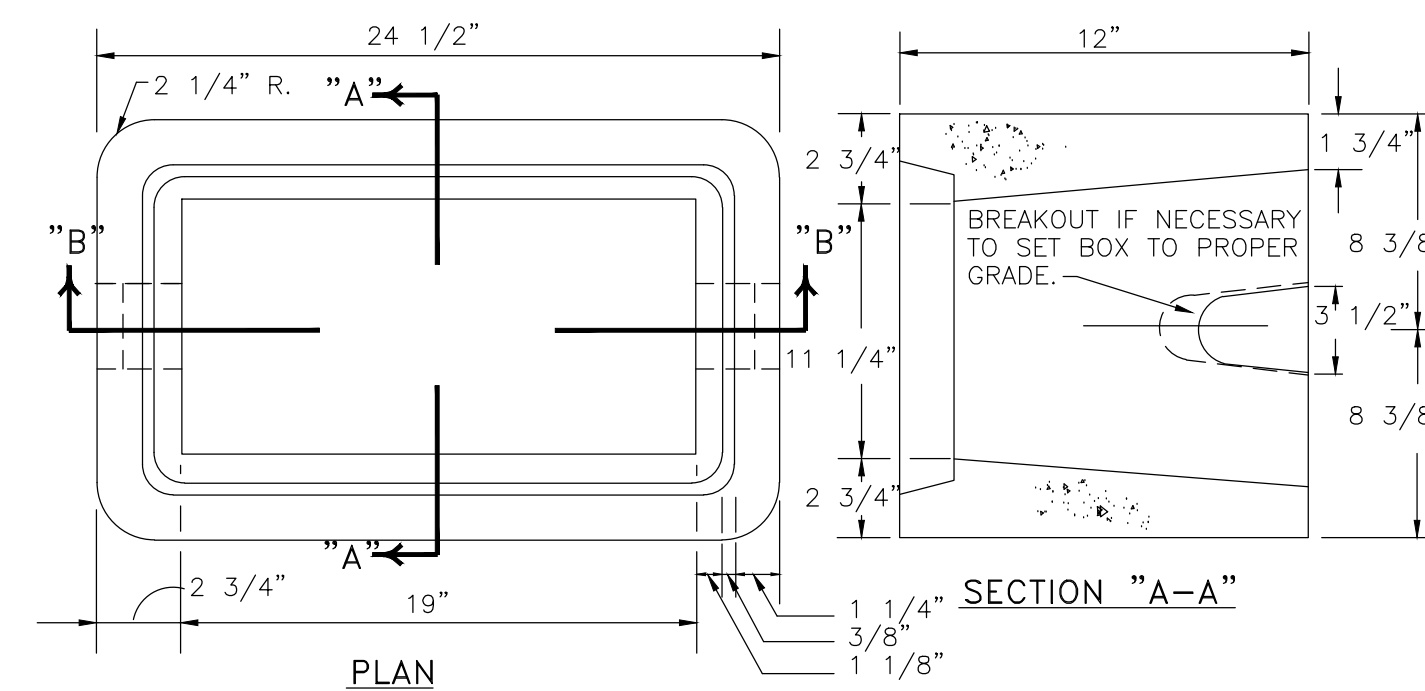
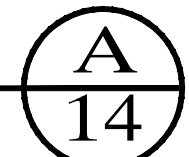
NOTE:
 • ALL LOT SERVICE LATERALS SHALL BE INSTALLED PRIOR TO PAVING OF STREET



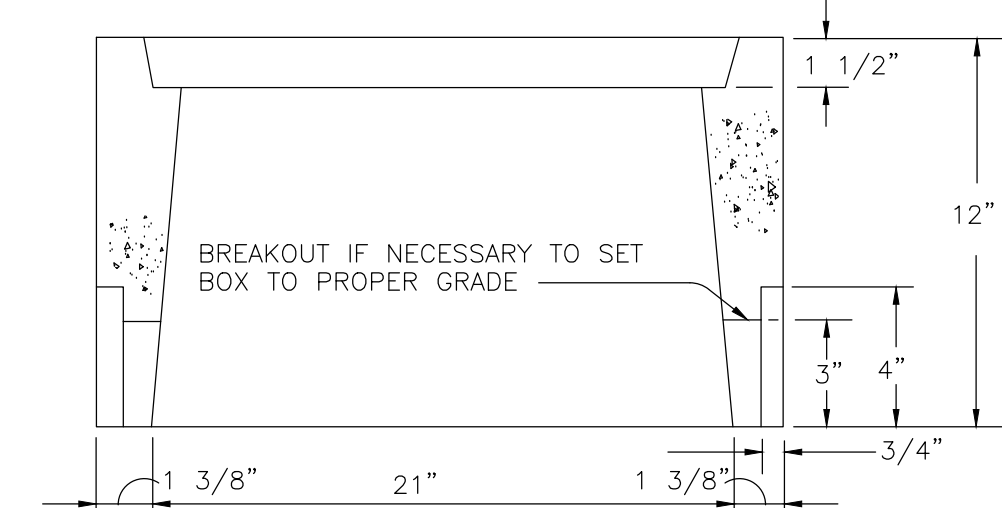
1" SERVICE INSTALLATION

C.O.Y. STD. NO. 5-150

NTS



PLAN



SECTION "B-B"

THE METER BOXES SHALL CONFORM TO THE DIMENSIONS OF THE ABOVE DRAWING AND SHALL BE MADE OF PORTLAND CEMENT CONCRETE POURED AND TAMPED (OR VIBRATED) IN TRUE FORM.
 THE PORTLAND CEMENT CONCRETE SHALL BE BATCHED IN THE PROPER PROPORTIONS, BY WEIGHT, OF WATER, CEMENT, FINE AGGREGATE (A.S.T.M. NO. C-33), AND COARSE AGGREGATE (3/8" ROCK). THIS MIX SHALL BE DESIGNED TO OBTAIN A MINIMUM OF 4000 P.S.I. AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH A.S.T.M. C-39. THIS MIX SHALL BE POURED AT A SLUMP NOT IN EXCESS OF 6".
 UPON REMOVAL OF THE FORMS, THE METER BOXES SHALL BE WATER CURED FOR 7 DAYS, OR SPRAYED WITH A MEMBRANE CURING COMPOUND SUCH AS HUNTS PROCESS OR EQUAL.
 THE METHOD OF SAMPLING AND TESTING OF THESE BOXES SHALL CONFORM TO A.S.T.M. NO. C-129 & 140, EXCEPT THAT THE MINIMUM REQUIRED STRENGTH SHALL BE 4000 P.S.I. AT 28 DAYS.
 METER BOX LIDS SHALL BE CAST IRON OR STEEL AND FIT FLUSH WITH TOP OF BOX AND HAVE ADEQUATE BEARING ON SEAT. WHEN WATER METER BOXES ARE IN PAVED AREAS SUBJECT TO VEHICLE TRAFFIC, A TRAFFIC RATED LID WILL BE USED.

CONC. WATER METER BOX FOR 1" METER AND SMALLER

C.O.Y. NO. 5-152

NTS



NOTES:

- SEWER CONSTRUCTION STAKING SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED ENGINEER OR SURVEYOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF SITE AND SOIL CONDITION AND SHALL NOTIFY ALL UTILITY AGENCIES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONDITIONS REQUIRING CHANGE TO THE PLANS.
- CONTRACTOR SHALL NOTIFY FARWEST WATER & SEWER, INC. PRIOR TO START OF CONSTRUCTION.
- STANDARD SPECIFICATIONS AND ARIZONA STATE HEALTH DEPARTMENT BUL. NO. 11 SHALL APPLY TO THIS PROJECT.
- A MINIMUM OF 7' SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SEWER LINES AND WATER AND SEWER MAINS.
- SEWER MAINS AND SERVICES SHALL BE CONSTRUCTED OF CLASS 50 CEMENT OR EPOXY LINED DUCTILE IRON PIPE FOR A DISTANCE OF 7' IN BOTH DIRECTIONS FROM A WATERMAIN OR SERVICE WHEN:
 - SEWER MAIN OR SERVICE CROSSES LESS THAN 2' BELOW A WATER MAIN
 - WATER MAIN OR SERVICE CROSSES BELOW A SEWER MAIN OR SERVICE (A MINIMUM OF 24" SEPARATION SHALL BE MAINTAINED VERTICALLY BETWEEN WATER AND SEWER MAINS AND SERVICES).
- NO STREET, WATER AND SEWER IMPROVEMENTS WILL BE ACCEPTED BY FARWEST WATER & SEWER, INC. FOR MAINTENANCE UNTIL "AS BUILT" CERTIFIED PLANS ARE FILED WITH AND ACCEPTED BY FARWEST WATER & SEWER, INC.
- SEWER PIPE SHALL BE PVC, HAVE N.S.F. SEAL OF APPROVAL, AND MEET ASTM D-3034, SDR 35.
- SEWER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED WITH 4 FEET OF HEAD UPSTREAM. ALLOWABLE LEAKAGE NOT TO EXCEED 200 GAL./IN. DIA./MILE OF PIPE/DAY.
- EXFILTRATION FROM MANHOLES SHALL BE LIMITED TO 0.1 GALS./HR./VERTICAL FOOT.
- DEFLECTION TEST OF AT LEAST 20% OF PLASTIC SEWER PIPE SHALL BE PERFORMED. SHORT TERM DEFLECTION IN EXCESS OF 5% SHALL BE CONSIDERED UNSERVICEABLE AND SHALL BE REPAIRED AND RETESTED.
- IN AREAS WHERE THE GROUNDWATER IS AT PIPE SPRING LINE OR ABOVE INFILTRATION TESTS SHALL BE PERFORMED. ALLOWABLE INFILTRATION FOR SEWER MAINS NOT TO EXCEED 200 GAL./IN DIA./MILE OF PIPE/DAY. ALLOWABLE INFILTRATION FOR MANHOLES SHALL BE LIMITED TO 0.1 GALS./HR./VERTICAL FOOT.

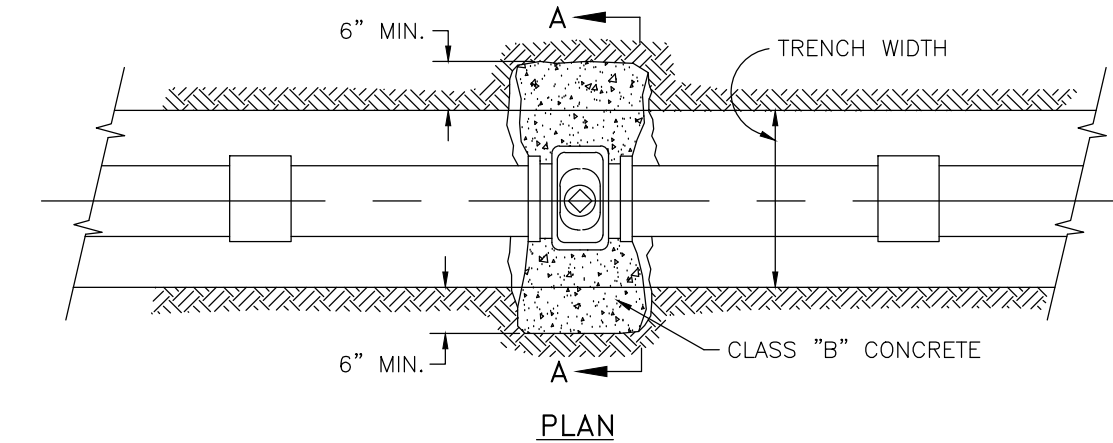
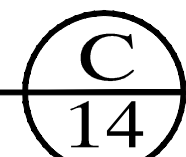
NOTES:

- THE METER BOXES SHALL CONFORM TO THE DIMENSIONS OF THE ABOVE DRAWING AND SHALL BE MADE OF PORTLAND CEMENT CONCRETE POURED AND TAMPED (OR VIBRATED) IN TRUE FORM.
- THE PORTLAND CEMENT CONCRETE SHALL BE BATCHED IN THE PROPER PROPORTIONS, BY WEIGHT, OF WATER, CEMENT, FINE AGGREGATE (A.S.T.M. NO. C-33), AND COARSE AGGREGATE (3/8" ROCK). THIS MIX SHALL BE DESIGNED TO OBTAIN A MINIMUM OF 4000 P.S.I. AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH A.S.T.M. C-39. THIS MIX SHALL BE POURED AT A SLUMP NOT IN EXCESS OF 6".
- UPON REMOVAL OF THE FORMS, THE METER BOXES SHALL BE WATER CURED FOR 7 DAYS, OR SPRAYED WITH A MEMBRANE CURING COMPOUND SUCH AS HUNTS PROCESS OR EQUAL.
- THE METHOD OF SAMPLING AND TESTING OF THESE BOXES SHALL CONFORM TO A.S.T.M. NO. C-129 & 140, EXCEPT THAT THE MINIMUM REQUIRED STRENGTH SHALL BE 4000 P.S.I. AT 28 DAYS.
- METER BOX LIDS SHALL BE CAST IRON AND FIT FLUSH WITH TOP OF BOX AND HAVE ADEQUATE BEARING ON SEAT. WHEN WATER METER BOXES ARE IN PAVED AREAS SUBJECT TO VEHICLE TRAFFIC, A TRAFFIC RATED LID WILL BE USED.

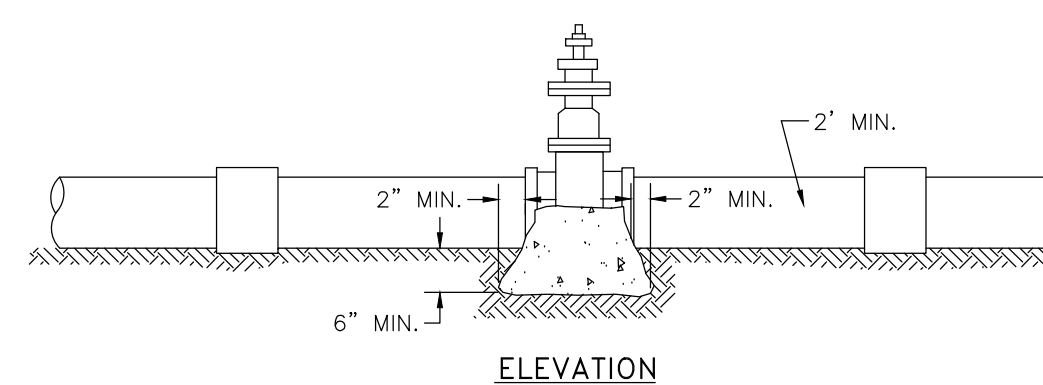
CONCRETE METER BOX FOR 1 1/2" AND 2" METERS

C.O.Y. NO. 5-153

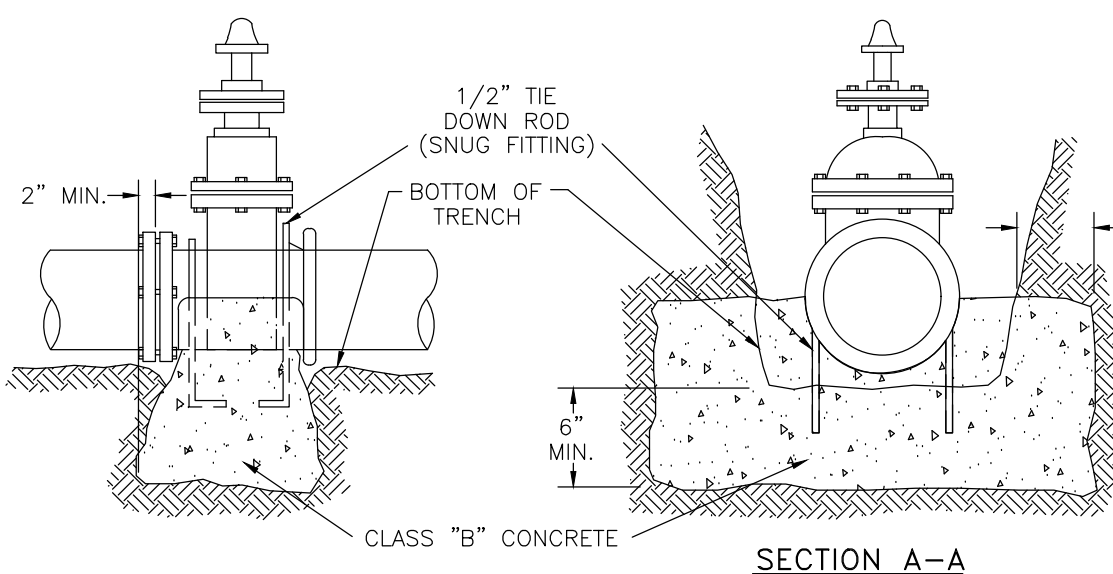
NTS



PLAN



ELEVATION



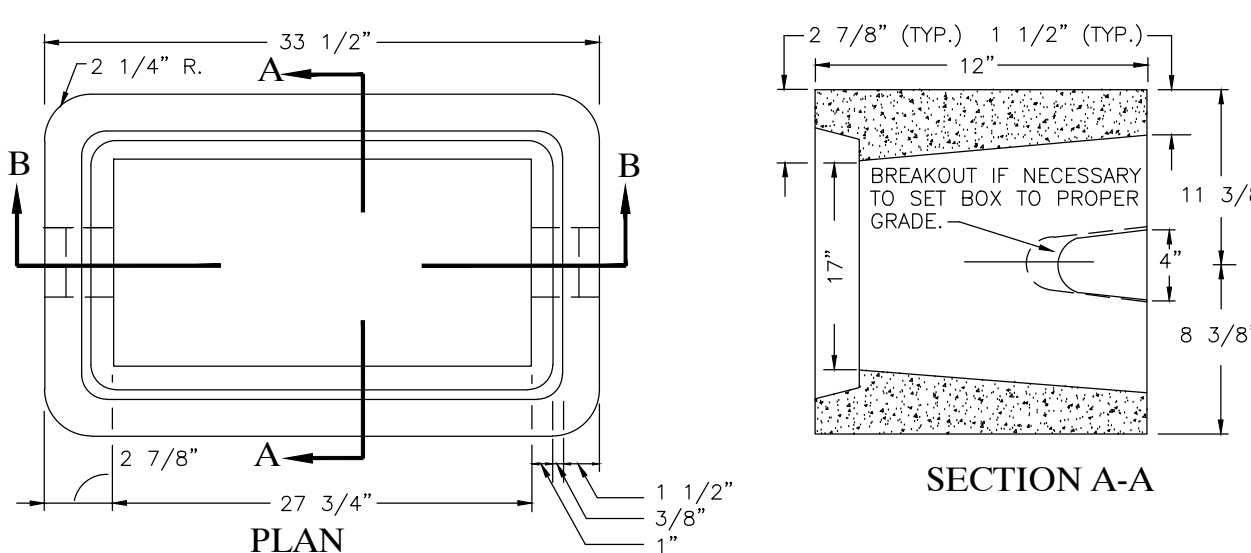
SECTION A-A

NOTE:
 THIS DETAIL COVERS WATER VALVES 4" OR LARGER

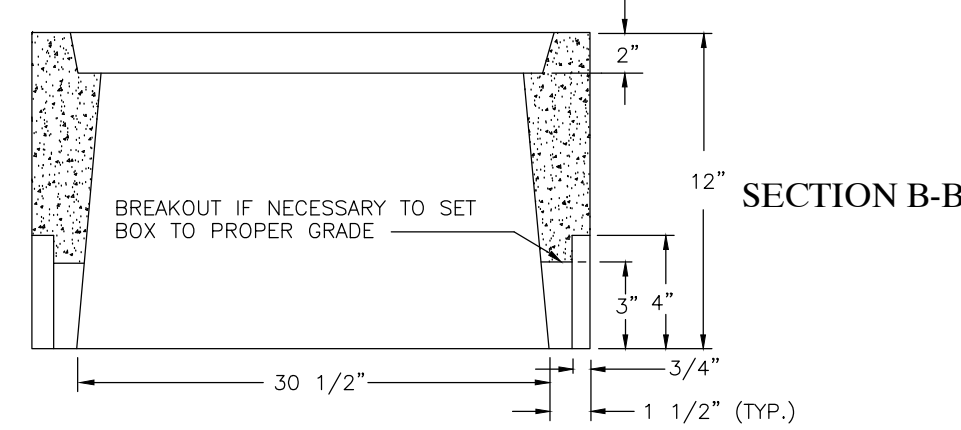
ALL BURIED IRON SURFACES SHALL BE WRAPPED WITH MIN. 10 MIL. POLYETHYLENE. TIE DOWN RODS REQUIRED FOR PIPE LARGER THAN 8" CONCRETE NOT TO BE PLACED IN CONTACT WITH PIPE.

VALVE ANCHOR

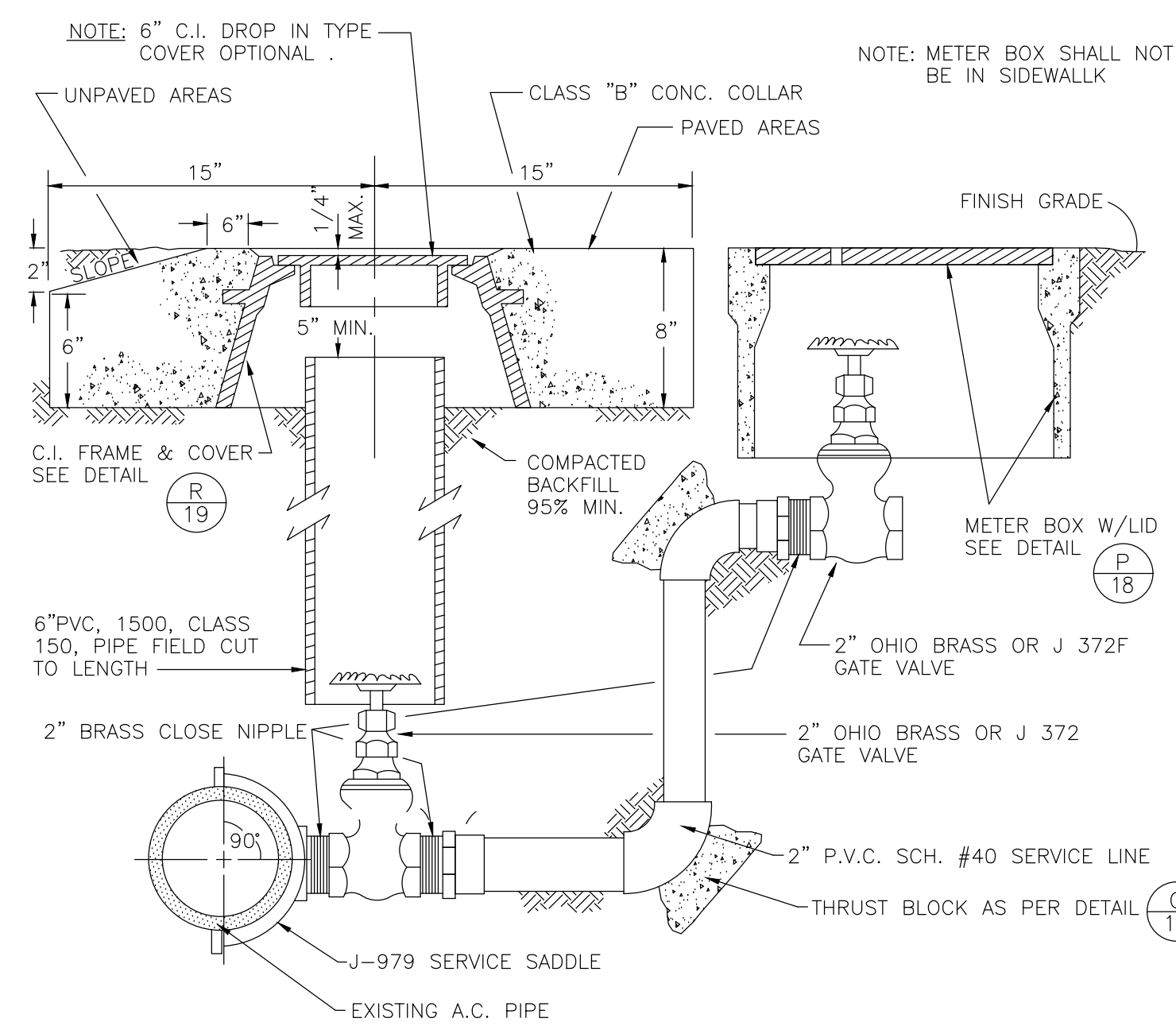
C.O.Y. STD. NO. 5-110



SECTION A-A

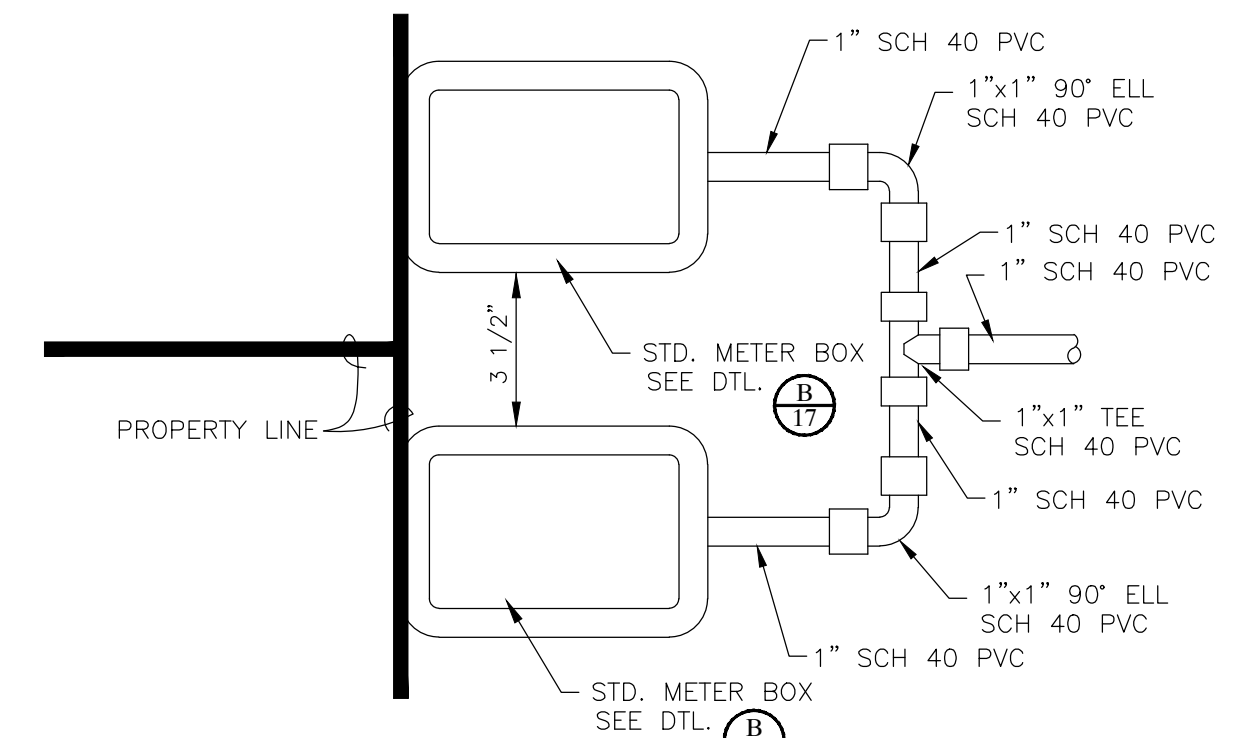


SECTION B-B

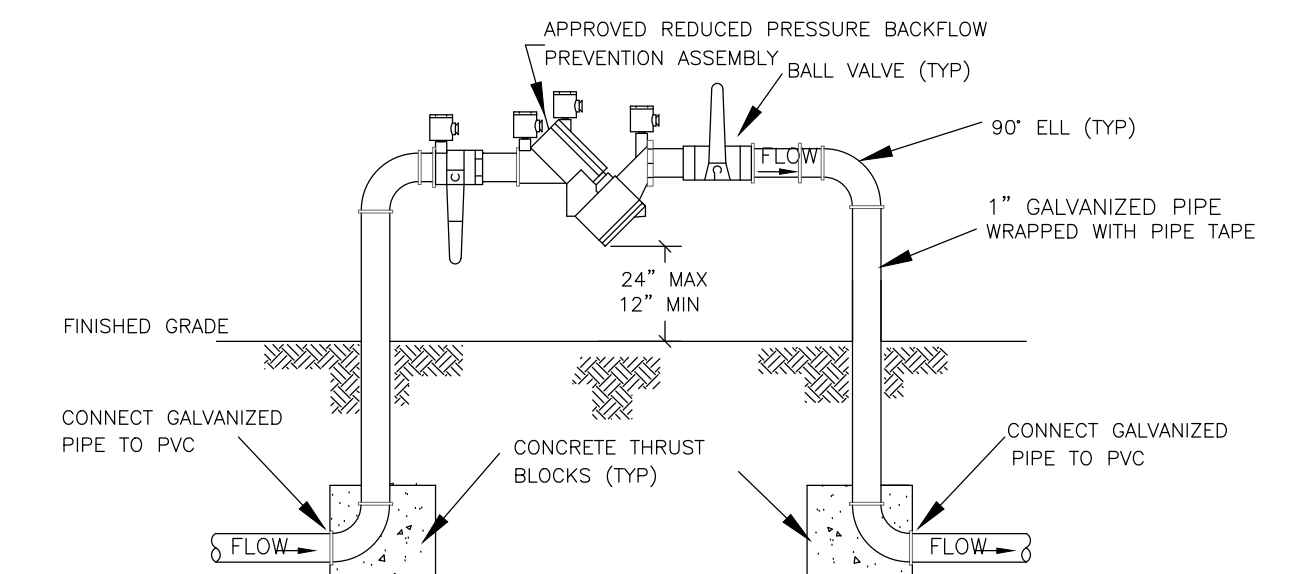


2" SERVICE INSTALLATION

NTS



TYPICAL DUAL MANIFOLD STUB SERVICE

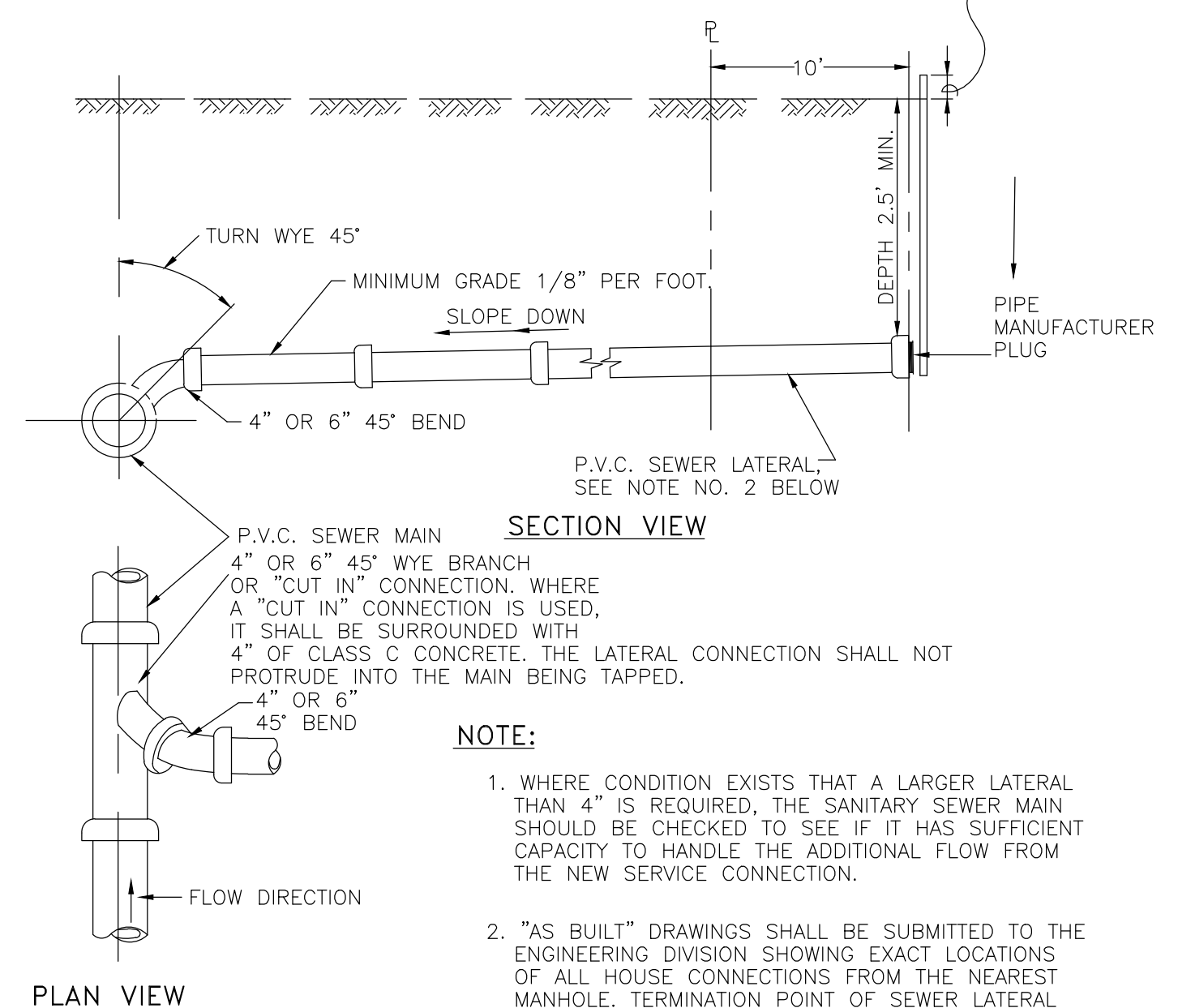


REDUCED PRESSURE BACKFLOW ASSEMBLY



BACKFILL IN DITCH SHALL BE COMPACTED TO 95% OF THE MAX. DENSITY OF THE SOIL SEE STD. NO. 5-080

2" X 4" STAKE 2 1/2 FT. MIN. 8" TO 12" ABOVE SURFACE PAINT TOP GREEN



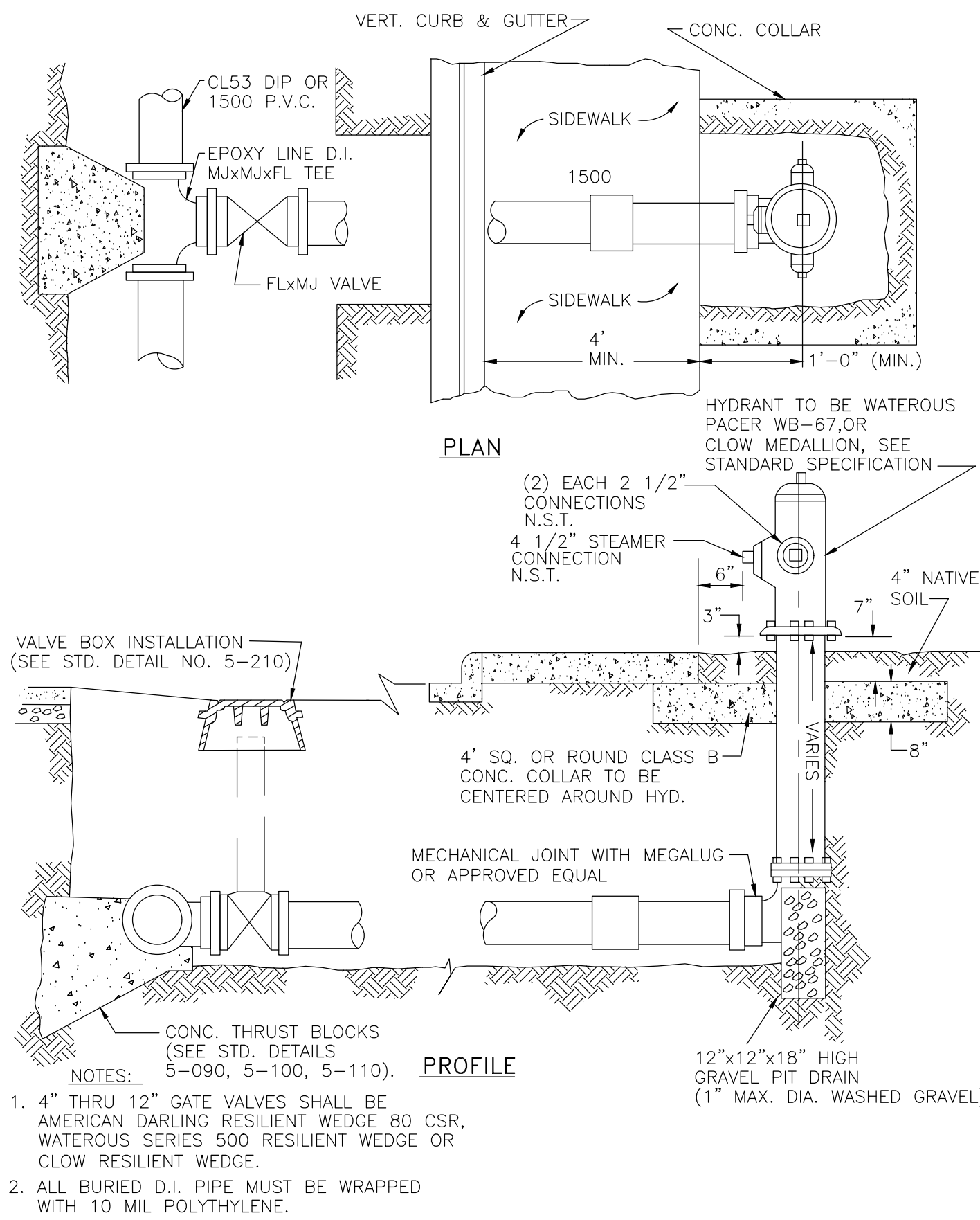
SANITARY SEWER SERVICE DETAIL

C.O.Y. STD. NO. 5-020

NTS



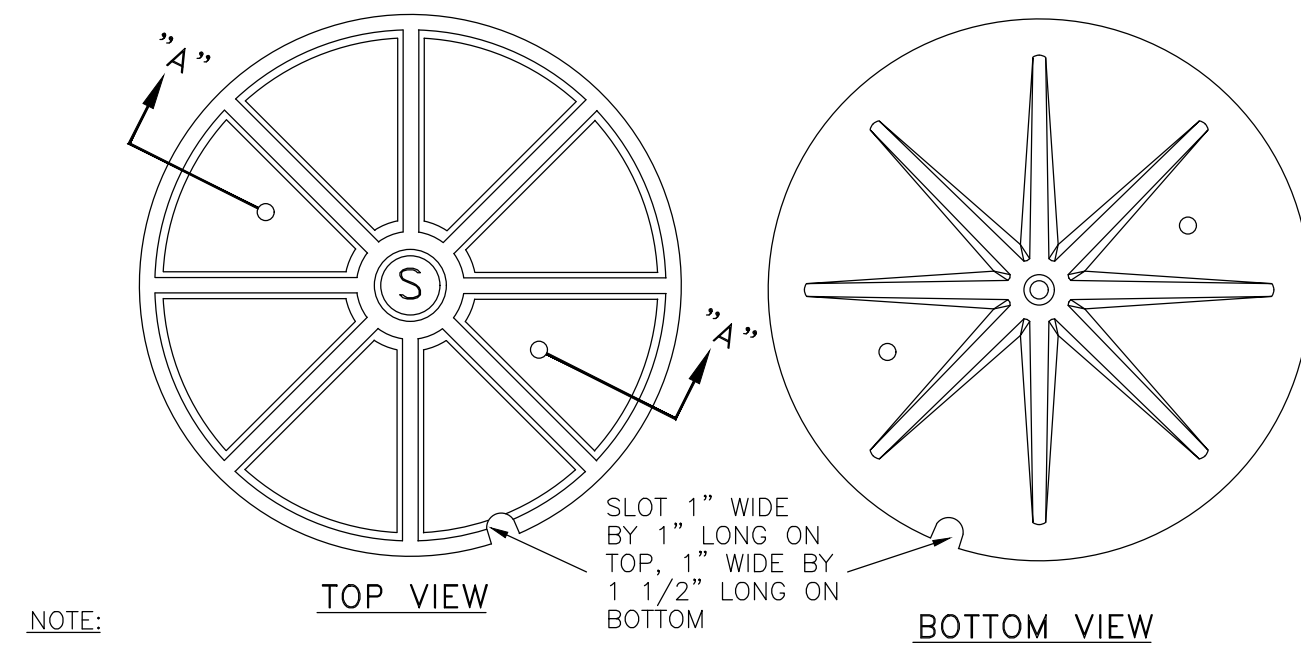
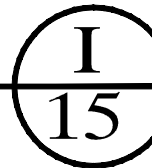
EDAIS Engineering, Inc.		
3075 S. Ave. 4E Yuma, Arizona 85365 (928) 344-3566 FAX (928) 341-1075 EMAIL: EE@Edaisengineering.com		
LAS QUINTAS DE SAN LUIS II SUBDIVISION		
WATER & SEWER DETAILS		
SCALE: AS SHOWN	DESIGNED BY: N.K.E.	CHECKED BY: N.K.E.
DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015
SHEET		14



FIRE HYDRANT DETAIL

C.O.Y. STD. NO. 5-120

NTS



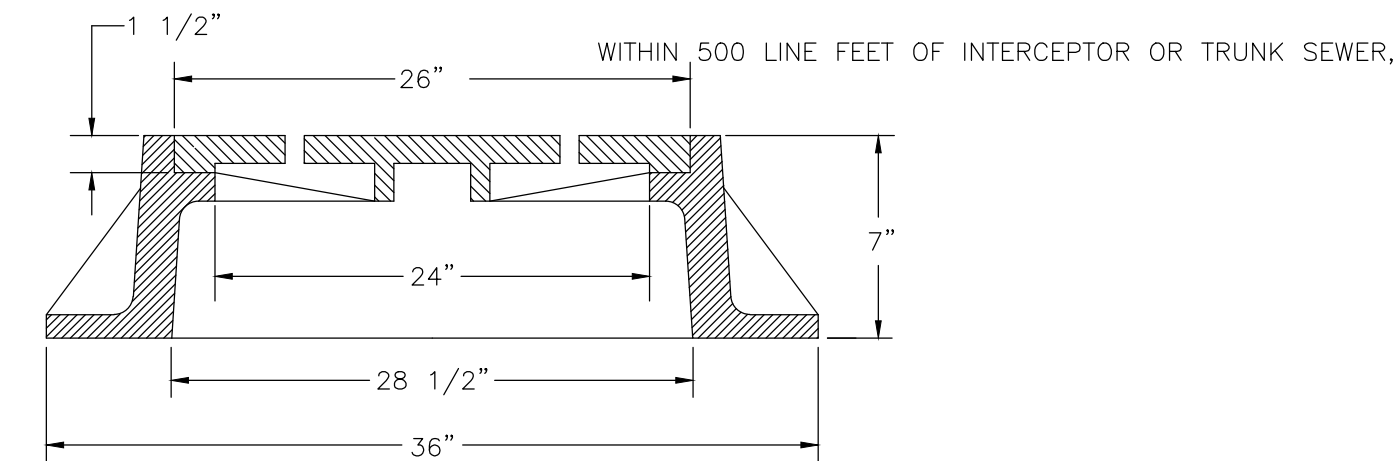
NOTE:

STANDARD MANHOLE COVERS SUCH AS NEENAH R-1642 OR EQUAL CAN BE USED WITH APPROVAL OF CITY ENGINEER.

SECTION OF FRAME

NOTE:

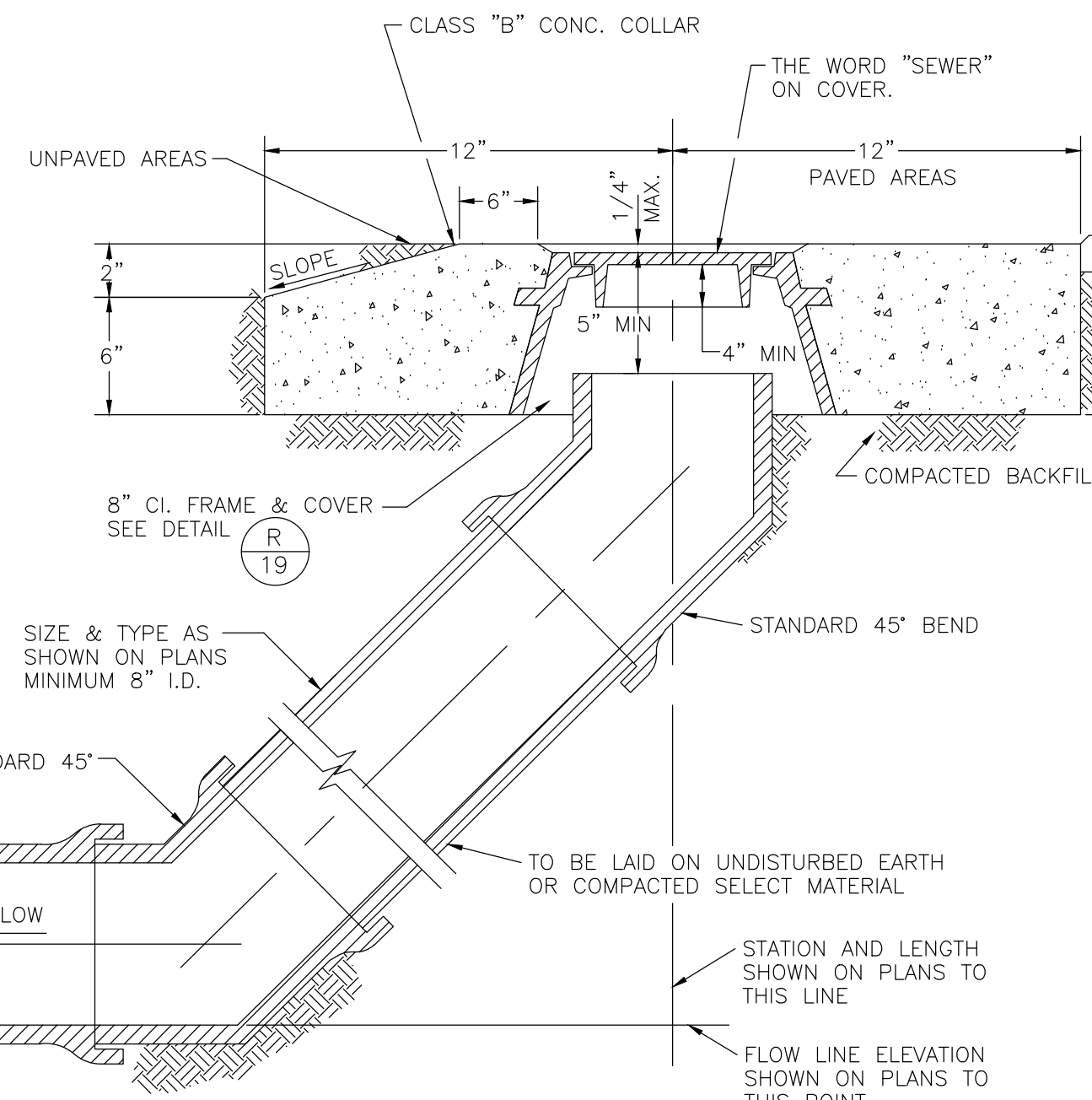
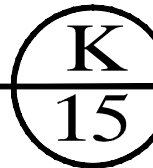
THE TOP OF THE COVER AND FRAME SHALL BE FLUSH, AND THERE SHALL BE 1/8" HORIZONTAL CLEARANCE ALL AROUND BETWEEN FRAME AND COVER. ALL COVERS TO HAVE THE LETTER "S". LETTERS TO BE RAISED 5/16" AND HEIGHT OF LETTERS NOT LESS THAN 2 1/2". COVER SHALL HAVE MIN. (2) 3/4" VENT HOLES EXCEPT THAT WHEN MANHOLES ARE THERE WILL BE NOT VENT HOLES.



STANDARD MANHOLE COVER

C.O.Y. STD. NO. 5-040

NTS

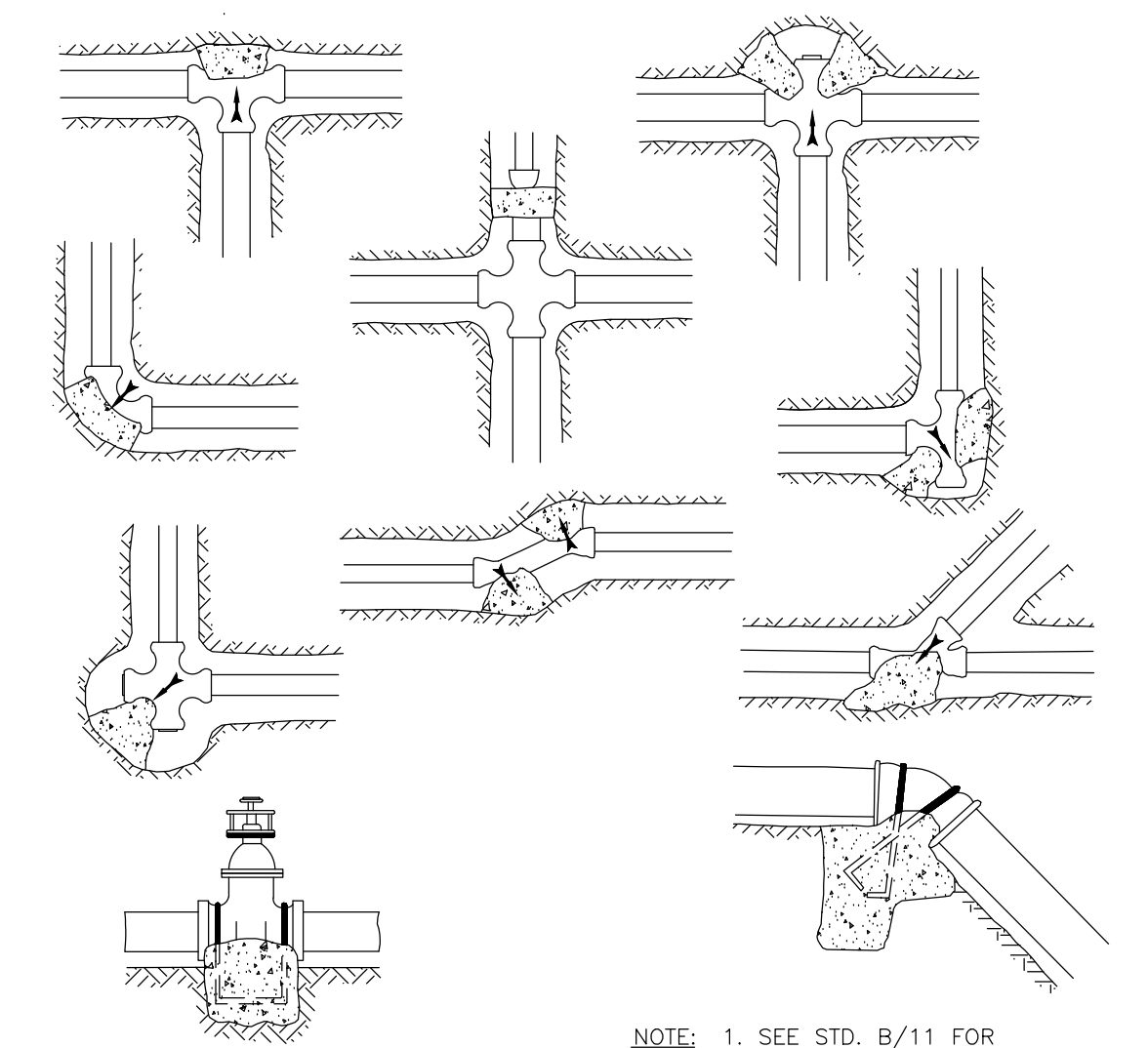


USE OF SANITARY SEWER CLEANOUT IN LIEU OF MANHOLE ONLY ALLOWED WITH APPROVAL OF YUMA COUNTY ENGINEER DIVISION

SANITARY SEWER CLEANOUT CLEANOUT

MOD. C.O.Y. STD. NO. 5-010

NTS

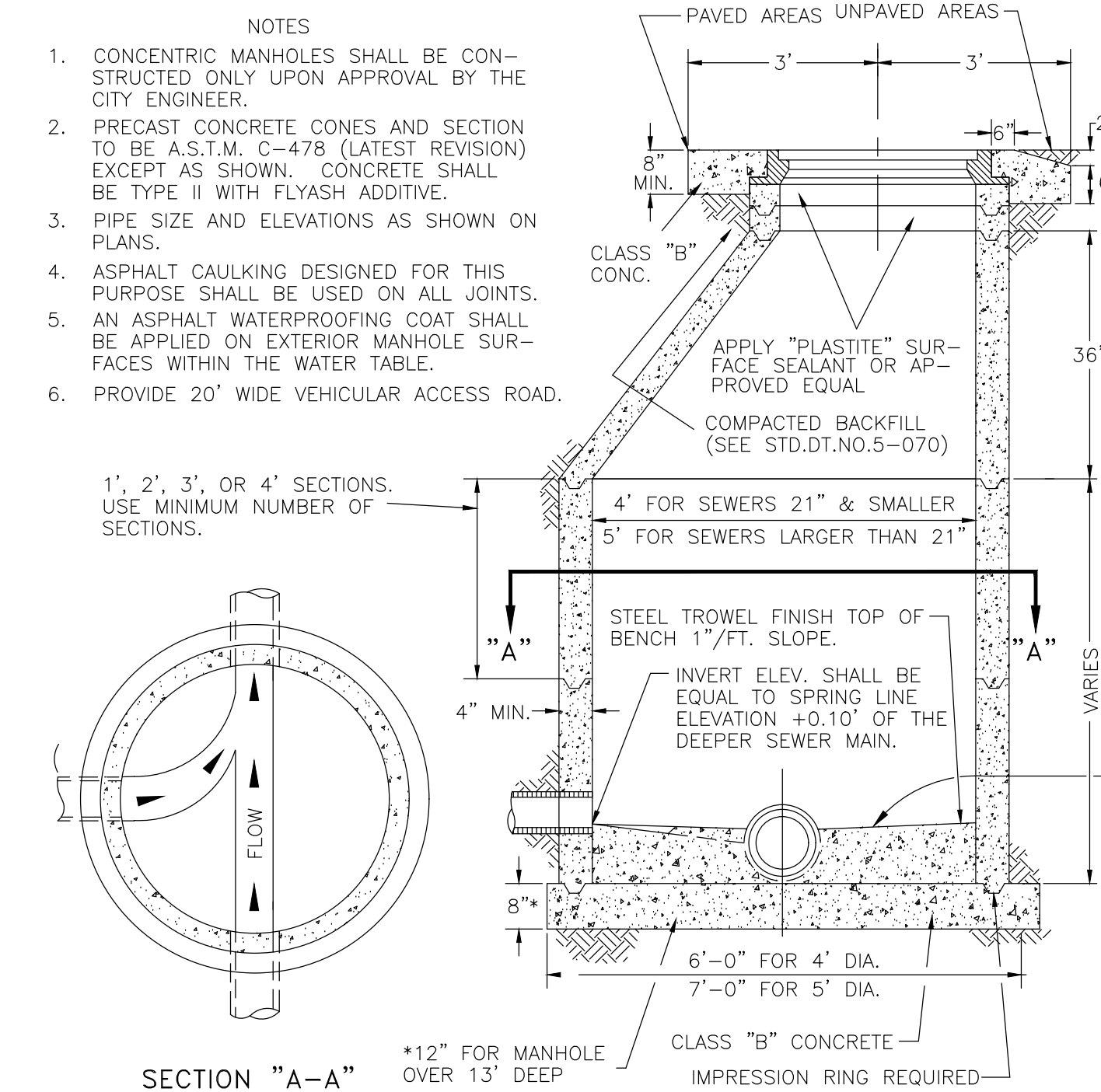
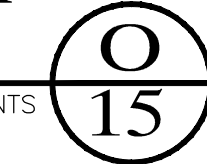


NOTE:

1. SEE STD. B/11 FOR CALCULATING SAFE BEARING AREAS.
2. ALL DUCTILE IRON FITTINGS AND FERROUS ACCESSORIES FOR DIRECT BURIAL SHALL BE WRAPPED WITH 10 MIL THICKNESS POLYETHYLENE WRAP.
3. FOR CONC. THRUST BLOCKS USE CLASS "B" CONCRETE.
4. CONCRETE NOT TO BE PLACED IN CONTACT WITH PIPE.

TYP. THRUST BLOCK INSTALLATION

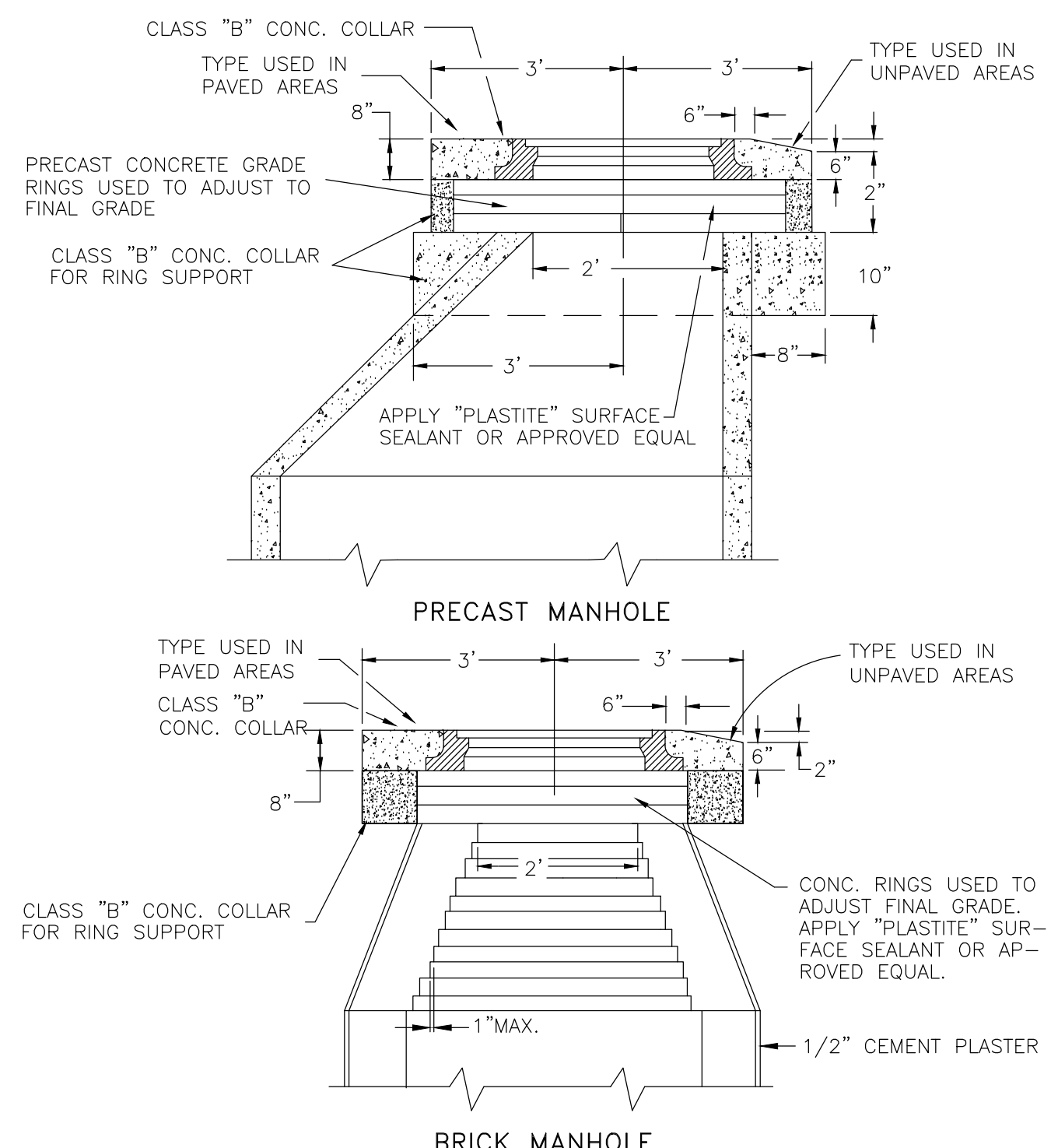
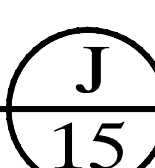
MOD. C.O.Y. STD. NO. 5-100



SANITARY SEWER MANHOLE

MOD. C.O.Y. STD. NO. 5-030

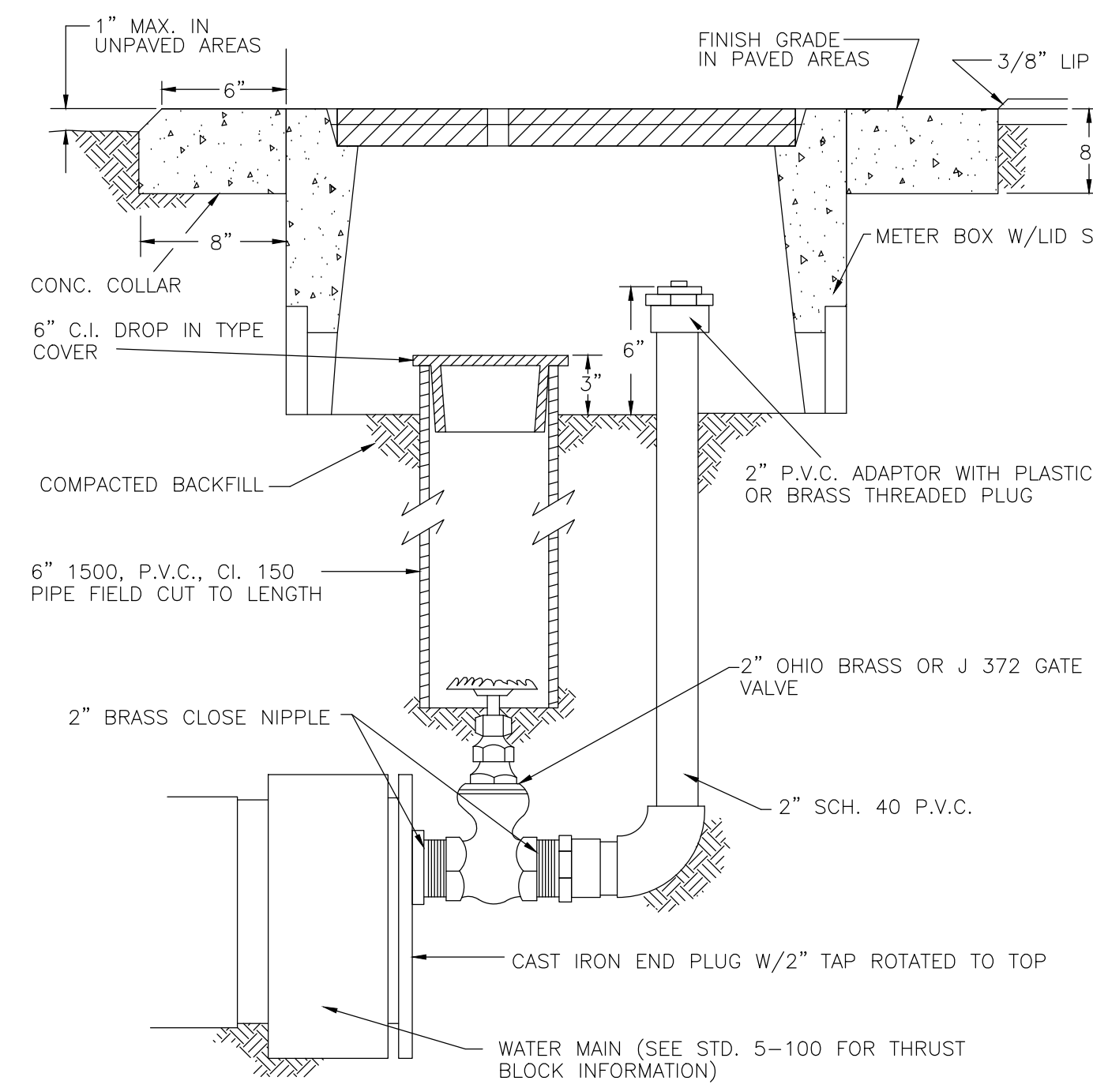
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ADJUST MANHOLE TO FINAL GRADE

C.O.Y. STD. NO. 5-040

NTS

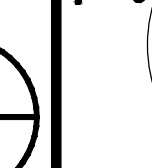


NOTE:
SEE APPROVED PLANS FOR DISTANCE BETWEEN TYPE "B" BLOWOFF & IN-LINE MAIN VALVE.

TEMPORARY BLOWOFF

MOD. C.O.Y. STD. NO. 5-010

NTS



VALVE BOX INSTALLATION

MOD. C.O.Y. STD. NO. 5-210



LAS QUINTAS DE SAN LUIS II SUBDIVISION

WATER & SEWER DETAILS

SCALE: AS SHOWN
DESIGNED BY: N.K.E.
CHECKED BY: N.K.E.
DATE: JUL. 16
DRAWN BY: STAFF
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