

# LAKE HAVASU CITY, ARIZONA

## SARA PARK TRAILHEAD IMPROVEMENTS

### BASIS OF HORIZONTAL CONTROL

BASIS OF HORIZONTAL CONTROL:

HORIZONTAL DATUM – NAD83 (CORS96)  
 PROJECTION – SPC AZ WEST  
 LINEAR UNITS – US FOOT  
 GEOID – GEOID 2003 ZONE 5

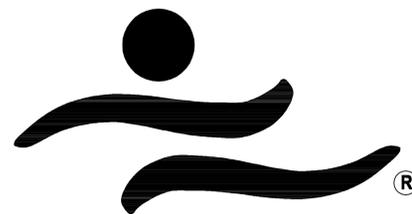
HORIZONTAL CONTROL IS ADJUSTED TO GROUND COORDINATES.  
 • CONTROL PT NO.9 HELD FOR GROUND ORIGIN POINT  
 • COMBINED SCALE FACTOR = 1.000075360111 (GRID TO GROUND)

PROJECT BASE CONTROL POINTS  
 CONTROL POINT NO. 9  
 DESCRIPTION – 5/8 REBAR WITH CAP APLS CONTROL.  
 COORDINATES  
 N: 1253164.449  
 E: 544915.501  
 ELEV.858.12

CONTROL POINT NO. 8  
 DESCRIPTION – PK NAIL SET IN ASPHALT.  
 COORDINATES  
 N: 1253544.620  
 E: 544719.879  
 ELEV.867.78

BASIS OF BEARINGS BETWEEN CONTROL POINT 9 AND CONTROL POINT 8.  
 N.27°13'43"W. 427.55'

CITY PROJECT NO.  
**PK1080RB**



# LAKE HAVASU CITY

PREPARED BY:  
**Kimley»Horn**

### PROJECT ENGINEER

KIMLEY-HORN  
 1129 IRON SPRINGS ROAD  
 PRESCOTT, AZ 86305  
 PHONE: 928-458-7121

CONTACT: ANDREW BAIRD, P.E.

### PROJECT MANAGER

RYAN MOLHOEK, P.E.

### UTILITY CONTACTS

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LAKE HAVASU CITY (WATER)	(928) 855-2618
SUDDEN LINK	(928) 855-9855
FRONTIER COMMUNICATION	(928) 453-0541
UNISOURCE ENERGY SERVICES (GAS)	(928) 505-7025
UNISOURCE ENERGY SERVICES (ELECTRIC)	(928) 505-7031

### CITY COUNCIL

MARK NEXSEN  
 DON CALLAHAN  
 DEAN BARLOW  
 DONNA BRISTER-McCOY  
 MICHELE LIN  
 CAL SHEEHY  
 JENI COKE

MAYOR  
 VICE MAYOR  
 COUNCIL MEMBER  
 COUNCIL MEMBER  
 COUNCIL MEMBER  
 COUNCIL MEMBER



NO.	#	#	#	#	DATE

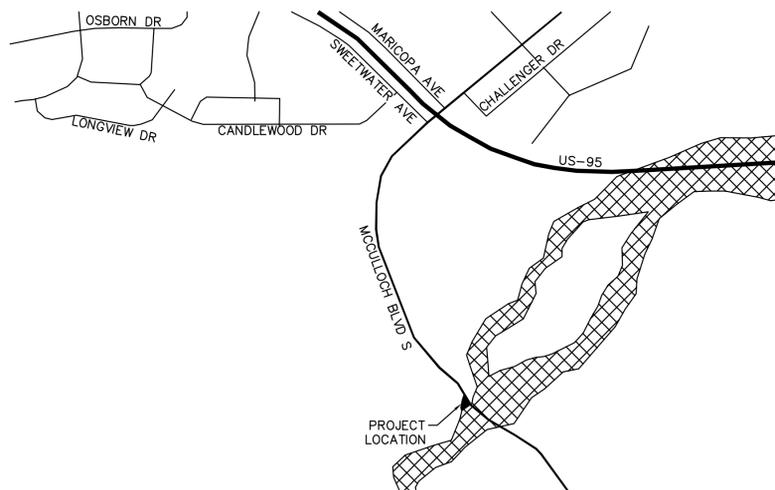
**LAKE HAVASU CITY**  
**SARA PARK TRAILHEAD**  
**IMPROVEMENTS**

Designed by: ACB
Drawn by: MFRN
Checked by: ACB
Date: 07/25/2016
Dwg scale: N.T.S.

**COVER SHEET**

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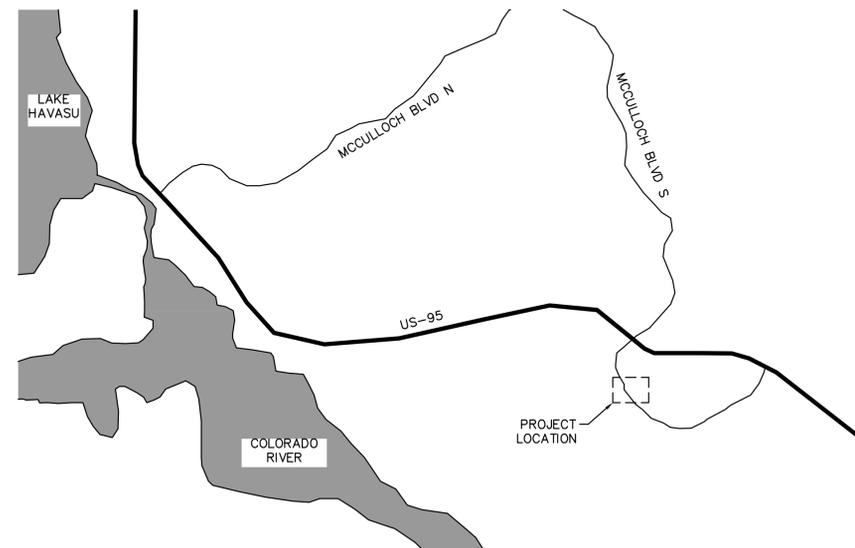
Sheet Number:  
**G-1**  
 Sheet 01 of 04



**VICINITY MAP**  
 SCALE: N.T.S.

### DRAWING INDEX

SHEET NO	DWG NO	DESCRIPTION
01	G-1	COVER SHEET
02	G-2	GENERAL NOTES
03	P-1	SITE CIVIL
04	P-2	GENERAL DETAILS



**LOCATION MAP**  
 SCALE: N.T.S.



Exp. Date 12/31/17

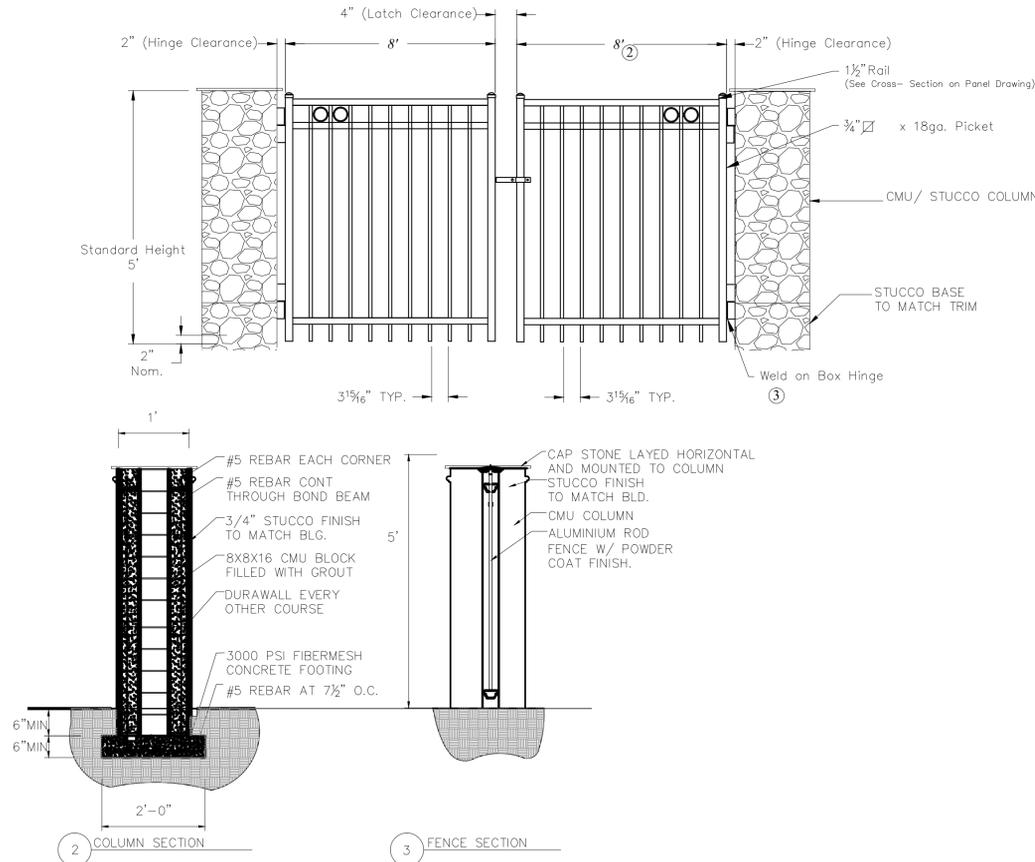


# SARA PARK GENERAL NOTES

## A. GENERAL

- ALL STRUCTURES ARE DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. CONTRACTOR SHALL DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST FORCES ON THE STRUCTURE DURING CONSTRUCTION.
- VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO STARTING WORK.
- CONTRACTOR SHALL EXERCISE EXTREME CARE DURING THE EXCAVATION AND CONSTRUCTION FOR NEW STRUCTURE TO AVOID DAMAGE TO EXISTING STRUCTURES AND EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MEANS AND METHODS REQUIRED TO FACILITATE CONSTRUCTION OF THE WORK AND ENSURING THE SAFETY, STABILITY AND INTEGRITY OF ADJACENT STRUCTURES AND FACILITIES.
- THE ENGINEER SHALL BE NOTIFIED A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION.
- ANY WORK PERFORMED WITHOUT THE KNOWLEDGE AND APPROVAL BY THE ENGINEER AND/OR ALL WORK MATERIAL NOT IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT AND SIDEWALKS (NEW AND EXISTING) HAVE BEEN SWEEPED CLEAN OF ALL DIRT AND DEBRIS.
- ALL QUANTITIES SHOWN ON PLANS ARE APPROXIMATE, ARE NOT VERIFIED BY THE ENGINEER, AND ARE FURNISHED SOLELY FOR THE CONTRACTOR'S CONVENIENCE. THEY DO NOT NECESSARILY CORRESPOND TO BID SCHEDULE ITEMS. PAYMENT WILL BE BASED ON BID SCHEDULE ITEMS. THE CONTRACTOR SHALL NOT BE RELIEVED OF HIS RESPONSIBILITY FOR INDEPENDENTLY ESTIMATING WORK QUANTITIES PRIOR TO BIDDING.
- BACKFILL COMPACTION SHALL BE PER MAG 301, UNLESS OTHERWISE NOTED.
- REMOVAL OF STRUCTURES AND OBSTRUCTIONS AS NECESSARY TO COMPLETE THE WORK, OTHER THAN SPECIALLY SCHEDULED IN THE BID, IS INCIDENTAL TO THE CONTRACT. NO SEPARATE MEASUREMENT OF PAYMENT FOR UNSCHEDULED REMOVAL ITEMS WILL BE MADE.
- CONSTRUCTION STAKING SHALL BE BY THE CONTRACTOR'S SURVEYOR WITH CONTROL PROVIDED BY THE DESIGN ENGINEER WHO STAMPED THE PLANS.
- THE LAKE HAVASU CITY MAY ORDER ANY OR ALL WORKMANSHIP AND MATERIALS TO BE TESTED ACCORDING TO APPLICABLE STANDARDS.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL REWORK AND/OR REMOVAL AND REPLACEMENT OF ALL MATERIALS AND/OR WORKMANSHIP REPRESENTED BY A FAILING TEST.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS OF TESTING AND QUALITY ASSURANCE/QUALITY CONTROL AS DELINEATED IN THE CITY'S PROJECT SPECIFICATIONS. THE COST OF TESTING IS INCIDENTAL TO EACH ITEM OF WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COST OF ANY CITY INSPECTION AND CITY INSPECTION TIME IF THE CONTRACTOR'S WORK IS BEING PERFORMED IN OVERTIME, AT NIGHT, OR ON WEEKENDS.
- APPROVAL OF A PORTION OF THE WORK IN PROGRESS DOES NOT GUARANTEE ITS FINAL ACCEPTANCE. TESTING AND EVALUATION MAY CONTINUE UNTIL WRITTEN FINAL ACCEPTANCE OF A COMPLETE AND WORKABLE UNIT.
- THE LAKE HAVASU CITY MAY SUSPEND THE WORK BY WRITTEN NOTICE WHEN, IN ITS JUDGEMENT, PROGRESS IS UNSATISFACTORY, WORK BEING DONE IS UNAUTHORIZED OR DEFECTIVE, WEATHER CONDITIONS ARE UNSUITABLE, OR THERE IS A DANGER TO THE PUBLIC HEALTH OR SAFETY.
- CLEARING AND GRUBBING IS CONSIDERED INCIDENTAL TO THE WORK UNLESS SEPARATELY IDENTIFIED IN THE BID SCHEDULE. NO SEPARATE MEASUREMENT OF OR PAYMENT FOR CLEARING, GRUBBING, AND TREE REMOVAL WILL BE MADE. THE SITE OF ALL EXCAVATION, EMBANKMENTS, AND FILLS SHALL FIRST BE CLEARED OF STUMPS, TRASH, WEEDS, RUBBISH, AND LOOSE BOULDERS WHICH SHALL BE REMOVED AND DISPOSED OF. THE CONTRACTOR MUST SATISFY HIMSELF REGARDING THE CHARACTER AND AMOUNT OF LOAM, CLAY, SAND, QUICKSAND, HARDPAN, GRAVEL, ROCK, WATER, AND ALL OTHER MATERIAL TO BE ENCOUNTERED AND WORK TO BE PERFORMED.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND ARE BASED ON FIELD DATA AND MAP RECORDS. THE CONTRACTOR SHALL CONTACT 1-800-STAKE-IT PRIOR TO ANY CONSTRUCTION ACTIVITY TO VERIFY THE ACTUAL LOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL DETERMINE WHICH UTILITIES DO NOT PARTICIPATE IN 1-800-STAKE-IT AND CONTACT THEM DIRECTLY TO VERIFY THE LOCATION OF THOSE UTILITIES. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR'S OPERATION SHALL BE REPORTED TO THE UTILITY OWNER IMMEDIATELY AND REPAIRED OR REPLACED AT NO COST TO THE CITY. IN CASES WHEN THE EXISTING UTILITIES ARE NOT AS DEPICTED ON THE PLANS SOME MINOR DEVIATION TO THE PROPOSED ALIGNMENT MAY BE ALLOWED TO MAINTAIN MINIMUM SEPARATION DISTANCES BETWEEN UTILITIES. ANY PROPOSED TO MAINTAIN MINIMUM SEPARATION DISTANCES BETWEEN UTILITIES. ANY PROPOSED TO CHANGES TO THE ALIGNMENT MUST BE SUBMITTED TO THE CITY'S REPRESENTATIVE FOR REVIEW. NO CHANGES WILL BE ALLOWED WITHOUT PRIOR APPROVAL.
- THE CONTRACTOR SHALL LIMIT THE WORK AREA TO PUBLIC RIGHT-OF-WAY AND PERMANENT EASEMENTS AS SHOWN FOR CONSTRUCTION OF THE PROJECT. TEMPORARY CONSTRUCTION EASEMENTS EXIST AS SHOWN AND INDICATED IN THE PLANS.
- CONTRACTOR SHALL OBTAIN ANY ADDITIONAL TEMPORARY EASEMENTS OR USE AGREEMENTS THAT ARE DEEMED NECESSARY FOR CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY. COPIES OF ALL CONTRACTOR OBTAINED EASEMENTS AND USE AGREEMENTS SHALL BE PROVIDED TO THE CITY'S REPRESENTATIVE PRIOR TO THE UTILIZATION OF THE SITE.
- THE CONTRACTOR SHALL GRADE AND RESURFACE ALL AREAS DISTURBED BY CONSTRUCTION, INCLUDING LANDSCAPE ROCK, IN ACCORDANCE WITH THE SPECIFICATIONS AND TO A CONDITION EQUAL TO, OR BETTER THAN, THE PRE-CONSTRUCTION CONDITION.
- THE CONTRACTOR SHALL PROTECT ALL CONCRETE STRUCTURES TO REMAIN. ALL CONCRETE REPLACEMENT SHALL BE FROM JOINT TO JOINT (WALLS, SIDEWALK) AND SHALL BE REPLACED WITH 4000 PSI CONCRETE. ALL DAMAGED CONCRETE PANELS MUST BE REPLACED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE PROTECTION TO PREVENT UNDERMINING OR DAMAGING THE STRUCTURAL INTEGRITY OF ALL FENCES, RETAINING WALLS, STREET SIGNS, OTHER UTILITY POLES, OR OTHER PRIVATE OR PUBLIC IMPROVEMENTS WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNING UTILITY AS NECESSARY TO PROVIDE TEMPORARY SUPPORT, OR PROTECTION DURING CONSTRUCTION WORK, AND SHALL NEATLY REMOVE AND PROMPTLY REPLACE NON UTILITY IMPROVEMENTS WITHOUT UNDUE DISRUPTION. THE COST OF ALL SUCH PROTECTION, REMOVAL, AND REPLACEMENT REQUIRED TO COMPLETE THE PROJECT SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- THE CONTRACTOR SHALL REMOVE ALL FENCING, ASPHALT AND CONCRETE ROADS AND DRIVEWAYS, CURB AND GUTTER, RIP-RAP, DRAINAGE CULVERTS AND ASSOCIATED APPURTENANCES AS REQUIRED FOR CONSTRUCTION PURPOSES. ALL ITEMS DAMAGED OR REMOVED SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATION TO A CONDITION EQUAL TO, OR BETTER THAN, THEIR CONDITION PRIOR TO THE START OF THE PROJECT. ITEMS OF WORK NOT SPECIALLY INCLUDED IN THE MEASUREMENTS AND PAYMENT SECTION OF THE SPECIFICATIONS SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS AND SHALL NOT BE PAID FOR SEPARATELY.

- IT IS NOT THE INTENTION OF THE SPECIFICATIONS TO SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAWS, REGULATIONS AND/OR ORDINANCES; THEY SHALL GOVERN IN ALL INSTANCES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SHOW A GOOD FAITH EFFORT AND TO PROTECT ALL EXISTING UTILITY TIES AND STRUCTURES AND TO ABIDE BY ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES IN THIS RESPECT.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON PRIVATE PROPERTY. ALL ITEMS DAMAGED OR REMOVED SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATION TO A CONDITION EQUAL TO, OR BETTER THAN, THEIR CONDITION PRIOR TO THE START OF THE PROJECT.
- PROPERTY LINES SHOWN ON DRAWINGS ARE APPROXIMATE.



NOTES:

- ALL METAL PARTS ARE TO BE ALUM. OR S.S. AND ARE TO BE FINISHED W/ FACTORY APPLIED POWDER-COAT PAINT. COLOR: TO MATCH EXISTING SHADE STRUCTURE. CONTRACTOR TO PROVIDE SAMPLE PRIOR TO CONSTRUCTION.
- THIS DRAWING HAS NOT BEEN EVALUATED BY A STRUCTURAL ENGINEER. CONTRACTOR SHALL EMPLOY STRUCTURAL ENGINEER TO EVALUATE DESIGN BEFORE BEGINNING CONSTRUCTION. SHOP DRAWINGS AND STRUCTURAL DETAILS TO BE PROVIDED TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL WORK SHALL CONFORM TO ALL LOCAL, STATE, AND FEDERAL CODES.

### ENTRY GATE DETAIL N.T.S.

### QUANTITIES

PAVING/GRADING/UTILITIES

REMOVALS/EXCAVATION		
Removal of Existing AC Pavement	SQ. YD.	446
Removal of Existing Entry Monuments	EA	3
Grading, Excavation and Embankment	CY	1,685
CIVIL IMPROVEMENTS		
2" Asphalt Concrete Pavement	SQ. YD.	1,868
Aggregate Base Course, 4"	SQ. YD.	1,868
Subgrade Preparation, 8"	SQ. YD.	1,868
Pavement Replacement, Transverse (MAG DET 200, Type B)	SQ. YD.	20
Thickened Edge of Pavement (MAG. DET. 201, Type B)	L. FT.	100
Concrete Single Curb (MAG DET. 222, Type A)	L. FT.	408
Concrete Curb and Gutter (MAG DET. 220, TYPE A)	L. FT.	222
Curb Opening	EA	1
Curb Termination (MAG DET 222)	EA	2

Concrete Bumper Block	EA	4
Concrete Sidewalk (MAG DET. 230)	SQ. FT	1,537
Sidewalk Ramp	EA	2
Cutoff Wall	LF	224
Install Decorative Boulders	EA	6
Entry Gate	EA	1
Restroom installation	LSUM	1
Relocate Shade Structure	LSUM	1
UTILITY IMPROVEMENTS		
Septic Tank, Vault, Excavation, and Installation	LSUM	1
4" PVC Sewer	L. FT.	97
2" Water Service	L. FT.	321
4" PVC Sleeve	L. FT.	80

### LEGEND

- PROPERTY LINE, EXISTING R/W
- - - - - EXISTING EASEMENT
- EXISTING FENCE
- W --- EXISTING UTILITY LINE WITH SIZE & TYPE
- PROPOSED WATER LINE
- S --- PROPOSED SANITARY SEWER LINE
- EXISTING CONTOUR
- 1150 --- EXISTING CONTOUR
- 1150 --- PROPOSED CONTOUR
- REMOVE EXISTING AC PAVEMENT
- PROPOSED SAWCUT
- PROPOSED CONCRETE SIDEWALK
- EXISTING WASH
- PROPOSED SIGN
- PROPOSED ENTRY MONUMENT AND GATE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING SIGN

### ABBREVIATIONS

- |      |  |
|------|--|
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| ASLD | ARIZONA STATE LAND DEPARTMENT            |
| ASTM | AMERICAN SOCIETY FOR TESTING MATERIALS   |
| BF   | BACK FACE                                |
| BLDG | BUILDING                                 |
| CLR  | CLEAR                                    |
| CONC | CONCRETE                                 |
| CT   | CONSTRUCTION                             |
| DIA  | DIAMETER                                 |
| DWG  | DRAWING                                  |
| E    | EAST, EASTING                            |
| ELEV | ELEVATION                                |
| ELC  | ELECTRIC                                 |
| ESMT | EASEMENT                                 |
| EXST | EXISTING                                 |
| FF   | FRONT FACE                               |
| FG   | FINISH GRADE ELEVATION                   |
| FT   | FOOT OR FEET                             |
| GND  | GROUND                                   |
| HW   | HIGH WATER                               |
| JT   | JOINT                                    |
| LF   | LINEAR FEET                              |
| LQL  | LAYOUT LINE                              |
| LS   | LUMP SUM                                 |
| MAG  | MARICOPA ASSOCIATION OF GOVERNMENTS      |
| MH   | MANHOLE                                  |
| N    | NORTH, NORTHING                          |
| NIC  | NOT-IN-CONTRACT                          |
| NPI  | NON-PAY ITEM                             |
| NTS  | NOT TO SCALE                             |
| OC   | ON CENTER                                |
| PIP  | PROTECT IN PLACE                         |
| R    | PROPERTY LINE                            |
| PROP | PROPOSED                                 |
| S/W  | SIDEWALK                                 |
| SF   | SQUARE FOOT                              |
| SPA  | SPACING                                  |
| SHT  | SHEET                                    |
| SPEC | SPECIFICATIONS                           |
| SS   | SANITARY SEWER                           |
| STA  | STATION                                  |
| STD  | STANDARD                                 |
| T/F  | TOP OF FOOTING                           |
| T/W  | TOP OF WALL                              |



Exp. Date 12/31/17



Designed by: ACB  
Drawn by: MRN  
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### GENERAL NOTES

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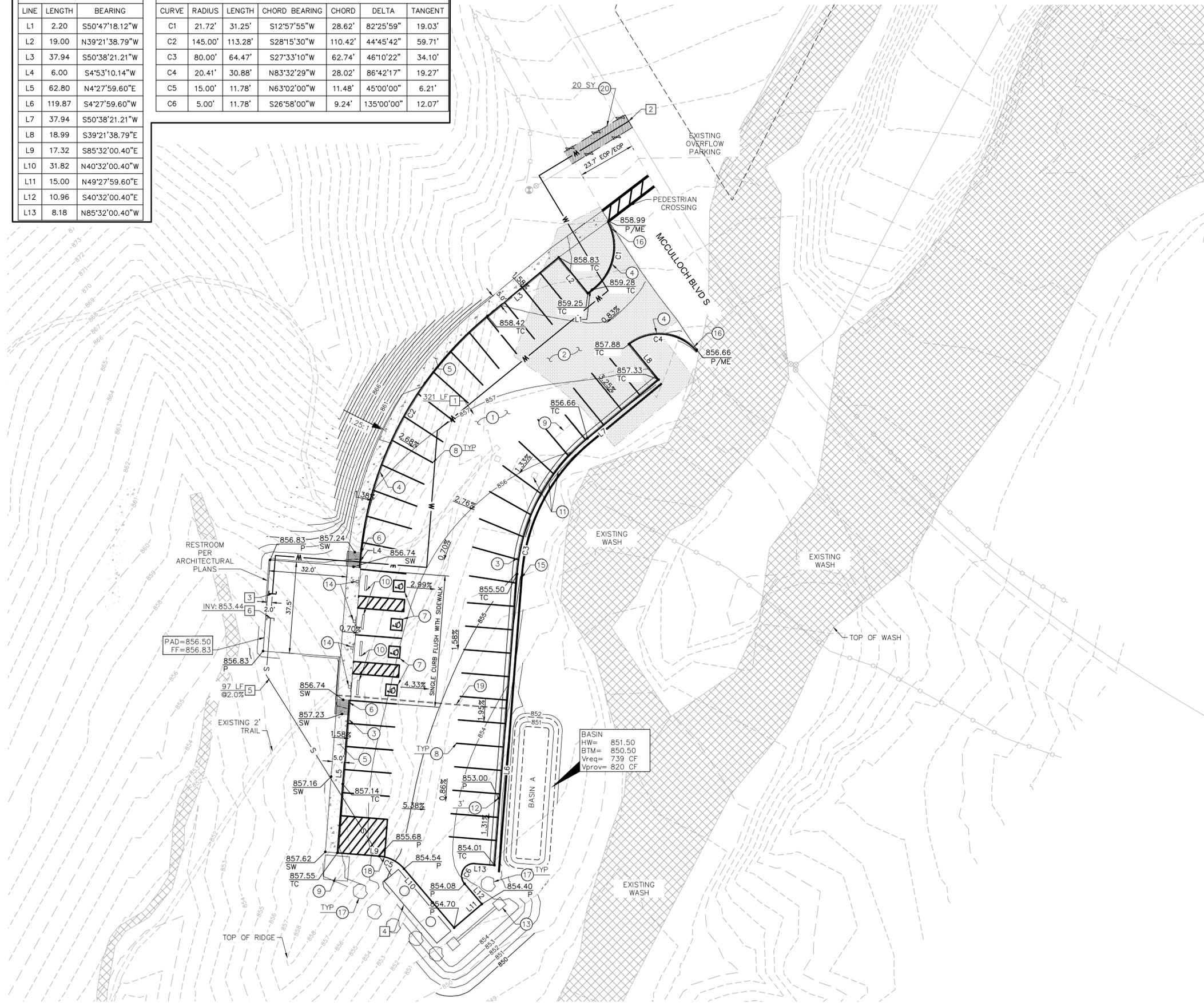
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LINE	LENGTH	BEARING
L1	2.20	S50°47'18.12"W
L2	19.00	N39°21'38.79"W
L3	37.94	S50°38'21.21"W
L4	6.00	S4°53'10.14"W
L5	62.80	N4°27'59.60"E
L6	119.87	S4°27'59.60"W
L7	37.94	S50°38'21.21"W
L8	18.99	S39°21'38.79"E
L9	17.32	S85°32'00.40"E
L10	31.82	N40°32'00.40"W
L11	15.00	N49°27'59.60"E
L12	10.96	S40°32'00.40"E
L13	8.18	N85°32'00.40"W

CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	21.72'	31.25'	S12°57'55"W	28.62'	82°25'59"	19.03'
C2	145.00'	113.28'	S28°15'30"W	110.42'	44°45'42"	59.71'
C3	80.00'	64.47'	S27°33'10"W	62.74'	46°10'22"	34.10'
C4	20.41'	30.88'	N83°32'29"W	28.02'	86°42'17"	19.27'
C5	15.00'	11.78'	N63°02'00"W	11.48'	45°00'00"	6.21'
C6	5.00'	11.78'	S26°58'00"W	9.24'	135°00'00"	12.07'



**PAVING AND DRAINAGE CONSTRUCTION NOTES**

- 1 2" AC ON 4" AB PER MAG SPECIFICATIONS SECTIONS 321 & 710.
- 2 REMOVE EXISTING AC PAVEMENT
- 3 6" VERTICAL CURB AND GUTTER PER MAG STD. DET. 220 A.
- 4 6" SINGLE CURB PER MAG STD. DET. 222 A.
- 5 4" THICK SIDEWALK PER MAG STD. DET. 230. WIDTH PER PLAN.
- 6 SIDEWALK RAMP PER DET. ON SHEET P-2.
- 7 PAINT ACCESSIBLE PARKING STALLS PER DET. ON SHEET P-2.
- 8 PAINT NEW PARKING STALL - 4" WIDTH, 9' O.C. (WHITE).
- 9 RELOCATE SHADE STRUCTURE.
- 10 CONCRETE PARKING BUMPER PER LAKE HAVASU CITY STANDARDS.
- 11 REMOVE ENTRY MONUMENT AND GATE.
- 12 CURB OPENING PER DETAIL ON SHEET P-2. WIDTH PER PLAN.
- 13 ENTRY MONUMENT AND GATE. REFERENCE SHEET G-2.
- 14 ACCESSIBLE PARKING SIGN PER DETAIL ON SHEET P-2.
- 15 CUT OFF WALL PER DETAIL ON SHEET P-2.
- 16 CURB TERMINATION PER MAG STD. DET. 222.
- 17 3'-4" SURFACE BOULDER PER DETAIL ON SHEET P-2.
- 18 THICKENED EDGE OF PAVEMENT PER MAG STD. DET. 201 TYPE B.
- 19 4" PVC SLEEVE.
- 20 PAVEMENT REPLACEMENT (TRANSVERSE) PER MAG STD. DET. 200, TYPE B.

**WATER/SANITARY SEWER CONSTRUCTION NOTES**

- 1 2" PVC WATER SERVICE. LENGTH PER PLAN.
- 2 REMOVE CAP AND TIE INTO EXISTING 2" CORP STOP.
- 3 DOMESTIC LINE BUILDING CONNECTION. REFERENCE ARCHITECTURAL PLANS FOR CONTINUATION.
- 4 5000 GALLON SEPTIC TANK. JENSON PRECAST OR APPROVED EQUAL. SEE DETAIL ON SHEET P-2.
- 5 4" PVC SEWER LINE. LENGTH PER PLAN.
- 6 SANITARY SEWER BUILDING CONNECTION. REFERENCE ARCHITECTURAL PLANS FOR CONTINUATION.

CONSTRUCTION	
PARKING STALLS	EARTHWORK
47	1478 CY (CUT)*

\*UNADJUSTED EARTHWORK QUANTITY. CONTRACTOR TO USE EXCAVATION QUANTITY IN BID SCHEDULE.



Exp. Date 12/31/17



Designed by: ACB	Drawn by: MRN	Checked by: ACB	Date: 07/25/2016	Dwg. scale: 1" = 20'
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SITE CIVIL

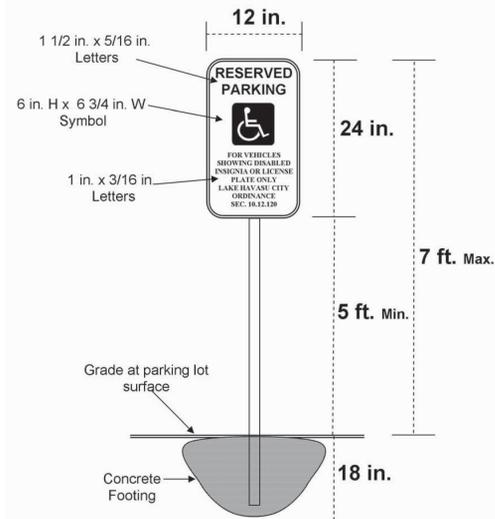
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Sheet Number:

**P-1**

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REVISIONS / SUBMISSIONS					

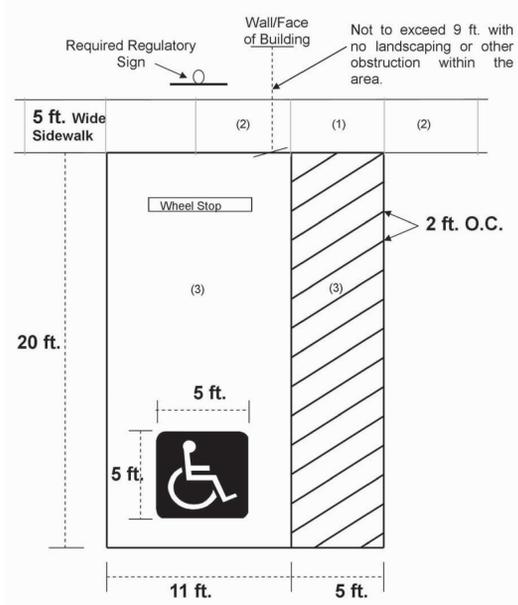


**STANDARD REGULATORY SIGN STANDARDS:**

1. ACCESSIBLE SIGN REQUIRED WITH NO LANDSCAPING OR OTHER OBSTRUCTION WITHIN THE AREA.
2. STANDARD SIGN MUST BE 0.080 REFLECTIVE ALUMINUM WITH BLUE LETTERS ON WHITE BACKGROUND.
3. REQUIRED STANDARD REGULATORY SIGN MUST BE MOUNTED ON CUSTOM/DECORATIVE POST. SIGN CAN BE MOUNTED ON A WALL IF LOCATED WITHIN 4' OF END OF SIDEWALK. NO LANDSCAPING OR OTHER OBSTRUCTION CAN BE WITHIN THE AREA BETWEEN THE REGULATORY SIGN AND PARKING SPACE.
4. OVERALL SIGN/POST HEIGHT FROM GRADE CANNOT EXCEED 7 FT.

**LAKE HAVASU CITY HANDICAP SIGN STANDARD DETAIL**

N.T.S.

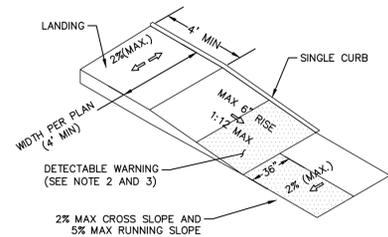


**UNIVERSAL HANDICAP SPACE STANDARDS:**

1. SLOPE REQUIREMENTS:
  - 5 FT SQUARE AREA CANNOT EXCEED 1:50 SLOPE RATIO IN ANY DIRECTION IF A RAISED SIDEWALK SITUATION EXISTS.
  - CURB RAMP ARE REQUIRED WITH A RAISED SIDEWALK SITUATION. RAMPS CANNOT EXCEED A 1:12 SLOPE RATIO.
  - 11 FT SPACE AND 5 FT ACCESS AISLE CAN NOT EXCEED 1:50 RATIO IN ANY DIRECTION.
2. WHEEL STOP OPTIONAL WITH CURBED SIDEWALK. WHEEL STOP WITH NO CURB MUST BE A MINIMUM OF 3 FT BACK OF EDGE OF SIDEWALK.
3. ACCESSIBLE SPACES MUST BE PROMINENTLY OUTLINED IN COLORS OR PHYSICAL BARRIERS FROM REGULAR PARKING SPACES.
4. INTERNATIONAL SYMBOL REQUIRED WITH BLUE BACKGROUND AND YELLOW SYMBOL.
5. MINIMUM 3 INCH OUTLINE STRIPING REQUIRED. WHITE ON ASPHALT AND TRAFFIC YELLOW ON CONCRETE TO CENTER.
6. REQUIRE STANDARD REGULATORY SIGN MUST BE MOUNTED ON CUSTOM/DECORATIVE POST. SIGN CAN BE MOUNTED ON A WALL IF LOCATED WITHIN 4 FT OF EDGE OF SIDEWALK.
7. ACCESS AISLE MUST BE CLEARLY MARKED WITH CROSS HATCHING STRIPES SPACED 2 FT ON CENTER (O.C.)

**LAKE HAVASU CITY UNIVERSAL HANDICAP SPACE STANDARDS & DETAIL**

N.T.S.

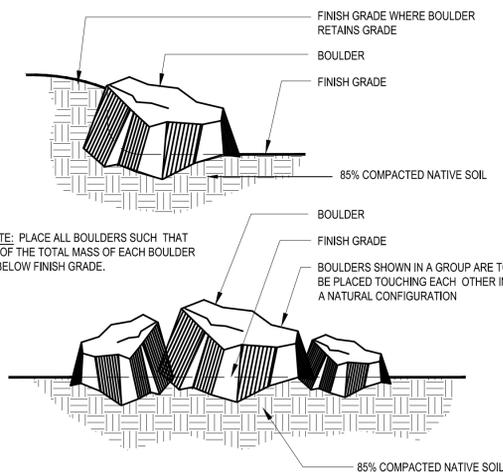


PARALLEL RAMP CURB RAMP

1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE CURB RAMP AND 3' DEEP GROOVED SURFACES ON OUTDOOR CURB RAMPS ARE NOT PERMITTED. VERIFY LOCAL REQUIREMENTS WITH THE BUILDING DEPARTMENT.
3. DOUBLE RAMP CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING 36" DEEP ALONG THE RAMP WHEN THE CURB RAMP HAS A TRAVEL SURFACE AT A 0" CURB.
4. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT-OF-WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
5. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
6. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 3500 PSI.
7. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
10. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.
11. TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
12. DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

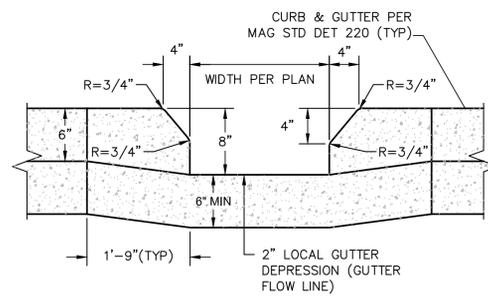
**ACCESSIBLE RAMP DETAIL**

N.T.S.



**BOULDER INSTALLATION**

N.T.S.

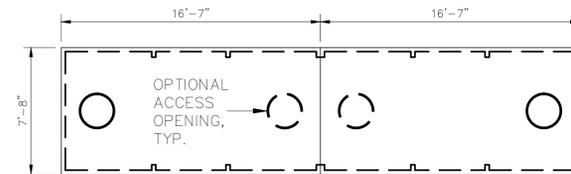
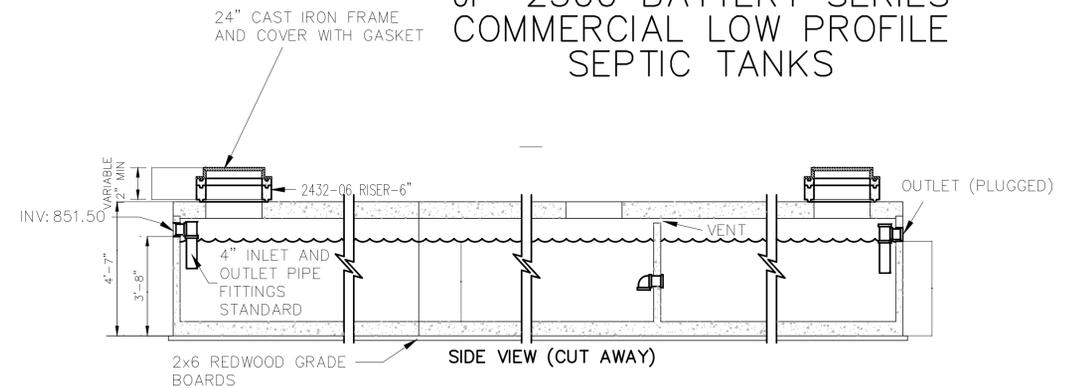


ALL CONCRETE SHALL BE CLASS "A" (3000 PSI) PER MAG SPEC SECT. 725.

**CURB OPENING DETAIL**

N.T.S.

**JP-2500 BATTERY SERIES COMMERCIAL LOW PROFILE SEPTIC TANKS**



TOP VIEW JP-2500

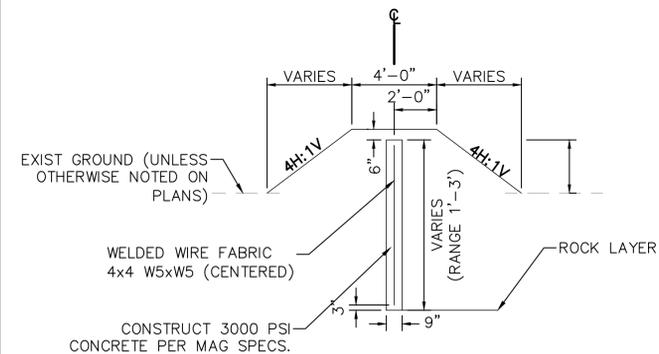
MODEL NO.	SECTIONS	INSTALLATION LENGTH	LIQUID CAPACITY
2xJP-2500	2 JP-2500 BATTERY TANKS	33'-4"	5000 GALLONS

BOX DESIGN LOAD: H-20 TRAFFIC WITH 1' TO 5' OF COVER

DRAWING IS NOT TO SCALE

**JENSEN PRECAST SEPTIC TANK DETAIL**

N.T.S.



**CUTOFF WALL DETAIL**

N.T.S.

Designed by: ACB  
Drawn by: MRN  
Checked by: ACB  
Date: 07/25/2016  
Dwg. scale: N/A



Exp. Date 12/31/17



Sheet Number:

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