

ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST EDITION, THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST EDITION, THE "SUMMER IN IMPLEMENTATION OF THE SUMMER IN THE SUMMER IN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE "UNIFORM BUILDING CODE, AND ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS REVISIONS TO THE ABOVE.

2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES AS SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCE WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, PIPES, OR STRUCTURES FROM DAMAGE OR DISRUPTION. IN PLACE FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORILY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

4. ANY REVISIONS AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.

5. TYPE 'C' GYMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. TYPE 'C' GYMENT TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.

6. PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION

7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTENDED TYPE CURB.

8. TO BE PAVED TO THE TOP OF THE (1%) ABOVE OF ALL GUTTERS AFTER CONSTRUCTION. GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.

9. CURB AND GUTTER DROPS TO BE UNACCEPTABLE TO THE CITY AS LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.

10. SIDEWALK RAMP REQUIRED CONSTRUCTION IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.

11. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL, AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION TO EXISTING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.

12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY THE (COMPANY) "REPORT # [DATE]". THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL NEW CONSTRUCTION.

13. EXACT LOCATION OF ALL NEW CONSTRUCTION TO BE SHOWN IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATION.

14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.

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93

1. IN THE EVENT THAT AN UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY EXCESS OR DEFICIENCY OF LEFT-OVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING AND PROPOSED HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACT, IN THE AREAS INDICATED: HORIZONTAL VERTICAL COMPACT A PAVEMENT AREA SUBGRADE 0.1+ $\pm$ 0.0 TO -0.1" SEE SOILS REPORT. B. ENGINEERED FILL 0.1+ $\pm$ 0.1 TO 0.2" SEE SOILS REPORT. COMPACT TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED TO PREVENT EROSION. THE CONTRACTOR SHALL OBTAIN A PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL. IF PROHIBITED, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
8. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
9. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH ITEM AT HIS OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "INFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY, THE CITY OF LAS VEGAS, LATEST REVISION, AND ANY ADOPTED SPECIAL AREA STANDARDS.
2. NO DEVELOPER SHALL LIGHT, PULL BOX, CONDUITS (ETC.) LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF TRAFFIC ENGINEERING AND THE CITY ENGINEER.
3. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
4. ALL EXISTING STREET LIGHTING CONDUITS SHALL BE GREEN #3 THW WIRE INSTALLED AS TRACER WIRE. WHEN "EMPTY" CONDUIT IS COMPLETELY INSTALLED FROM PB TO PB, IT SHALL HAVE MINIMUM OF #4 AND 1#3 THW WIRE WITH THE ENDS TAPED OR "SAFE OFF" PRIOR TO FINAL INSPECTION.
5. ALL EXISTING STREET LIGHTING CONDUITS SHALL BE BLACK, 1/2" DIA. HOOKS, RETAINING WALLS, ETC. SHALL LEAVE A MINIMUM CLEARANCE IN ACCORDANCE WITH THE USD NO. 320A.
6. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TFO TO PREPARE TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWINGS SHALL BE SIGNED BY THE CITY ENGINEER.
7. SERVICE POINT SHALL BE COORDINATED WITH NV ENERGY COMPANY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICE POINTS SHALL BE SHOWN ON THE CIVIL PLANS.
8. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO REQUEST THE CITY ENGINEER TO ATTACH TO ALL INSTALLATIONS SHALL REQUIRE A NEW SERVICE FOR OPERATION OF THE CIRCUIT.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREET LIGHTING CIRCUITS AND/OR POLES. THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED IN THE CONSTRUCTION OF THE PROJECT.
10. THE CONTRACTOR SHALL FURNISH COMPLETE SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON PLANS.
11. THE DEVELOPER/OWNER WILL BE REQUIRED TO SUPPLY POWER TO ALL NEW PUBLIC STREET LIGHTS INSTALLED UNDER THIS DESIGN PRIOR TO BOND RELEASE OR PROJECT COMPLETION. THE DEVELOPER/OWNER WILL BE RESPONSIBLE FOR ALL ITEMS ASSOCIATED WITH THE INSTALLATION, CONSTRUCTION, ENERGIZING, MAINTENANCE AND DECOMMISSIONATION OF THE STREET LIGHTS. THE DEVELOPER/OWNER SHALL BE RESPONSIBLE FOR ALL NEW SERVICE REQUIREMENTS, THE TRANSFER OF OWNERSHIP FROM THE DEVELOPER/OWNER TO THE CITY OF LAS VEGAS FOR ALL NEW PUBLIC STREET LIGHTS AND/OR SERVICES INSTALLED UNDER THIS PLAN DESIGN WILL BE IN ACCORDANCE WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TED) AND OPERATIONAL TRANSFERS WITH THE CITY OF LAS VEGAS TRAFFIC ENGINEERING DEPARTMENT (TED) AT (702) 226-5331.

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
2. THE SIGNAGE SHALL BE PLACED ON THE CORNER OR STREET NAME AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE LINE OF WORK, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS AND BARRICADES TO PROTECT THE CONTRACTOR'S WORK. TEMPORARY STOP SIGNS ALONG NEW STREET ENCRoACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHENEVER A DESIGNATED "SAFE ROUTE TO SCHOOL" IS ENCRoACHED UPON BY A CONSTRUCTION WORK ZONE AND A PUBLIC WORKER IDENTIFIED AS SUCH, THE CONTRACTOR IS REQUIRED TO INSTALL A "CROSSING GUARD" THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. WHENEVER A CONSTRUCTION WORK ZONE ENCRoACHES ON EXISTING TRAFFIC, THE CONTRACTOR SHALL REMOVE OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. PERMANENT TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO THE END OF THE CONSTRUCTION. PERMANENT SIGNS SHOWN ON THE PLANS, ALL NEW TRAFFIC SIGNS SHALL BE FABRICATED WITH DIAMOND GRADE VIR CLASS 6 REFLECTIVE SHEETING OR APPROVED EQUAL, ALL NEW TRAFFIC SIGNS, EXCEPT STREETNAME AND SCHOOL SPEED LIMIT SIGNS, SHALL BE FABRICATED WITH 3M SERIES 1500 ANTI-GRAFFITI PROTECTIVE OVERLAY FILM. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS, ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN OR SIGNPOST, THE SIGN OR SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET SIGNS AND STOP SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED TRAFFIC CONTROL SPECIALIST ON SITE AT ALL TIMES TO MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM DISRUPTION TO THE TRAFFIC OF THE CITY OF LAS VEGAS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING CITIZENS AREA TRANSIT (C.A.T.) IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT ROUTE.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF METROPOLITAN POLICE OFFICERS WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS OTHERWISE DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL PROVIDE A TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT MARKINGS, TRAFFIC SIGNS AND SIGNAGE. ANY REQUIRED CHANGES TO THE APPROVED DRAWINGS SHALL BE THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE MODIFYING, ADDING OR DELETING TRAFFIC MARKINGS AND SIGNAGE. ANY CHANGES TO THE DRAWINGS SHALL ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA. AS LIMITED IT MAY BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL POINT (CP) CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
 - a. POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE I AGGREGATE BASE.
4. ALL MANHOLES PAVED IN STREETS EIGHTY (80) FOOT ROW AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80) FOOT ROW WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS.
5. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12 INCH) DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE TEE'S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
6. ALL SEWER LATERALS SHALL BE INSTALLED TO MEET THE MINIMUM COVER TO THE LVLVD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
7. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
8. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO REMOVE ANY MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
9. THE INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE # 6325 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS ARE ON THE LAS VEGAS VALLEY WATER DISTRICTS - APPROVED PRODUCTS LIST AND ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [FC § 105.7.12] ON JOBS WITH EXISTING UNDERGROUND WATER MAINS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [FC § 3310, § 3312]
5. TO IDENTIFY FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [FC § 507.5.1.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADINGS IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [FC § 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND FIRE LINES SHALL BE WELL LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [FC § 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE FIRE PREVENTION DIVISION. [FC § 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [FC § 507.5.1.1]
10. PRIOR TO THE FINAL CLOSURE, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [FC § 507.5.1]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [FC § C102]
 - RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
 - COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT REQUIRED FOR FIRE PROTECTION, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC FLOW OF MORE THAN 1000 VPH, FIRE HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [FC § C102.6]

QUANTITIES SHOWN ARE ESTIMATE ONLY AND ARE INTENDED TO ILLUSTRATE SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFY EXACT QUANTITIES INVOLVED.

NONI

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF
 DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304.51 US SURVEY FEET (NAVD'88 2008 ADJUSTMENT)

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

ABBREVIATIONS

ABANDON	ISL	ISLAND
ABANDON IN PLACE	JB	JUNCTION BOX
AGGREGATE	LOC	LENGTH OF CURB
ALTERNATE	LT	LEFT
ASBESTOS CEMENT PIPE	LFI	LINEAR FEET
ASPHALTIC CONCRETE	LWWD	LAS VEGAS VALLEY WATER DIST.
ANGLE POINT	MH	MANHOLE
AVENUE	MAX	MAXIMUM
BACK OF CURB	MIN	MINIMUM
BACK OF CURB RETURN	MON	MONOLITHIC
BOUNDARY LINE	NO	NORTH OF
BEGINNING VERTICAL CURVE	NTS	NOT TO SCALE
BENCHMARK	OC	ON CENTER
CABLE TELEVISION	PAV	PAVEMENT
CENTER TO CENTER	PVC	POLYVINYL CHLORIDE
CENTERLINE	PI	POINT OF INTERSECTION
CITY OF BOULDER CITY	PRC	POINT TO/F REVERSE CURVE
CITY OF LAS VEGAS	PC	POINT OF CURVE
CITY OF HENDERSON	PT	POINT OF TANGENCY
CITY OF MESQUITE	PCC	POINT OF COMPOUND CURVE
CITY OF NORTH LAS VEGAS	PP	POWER POLE
CLARK COUNTY	P	POWER
CLARK COUNTY WATER	R	PROPERTY LINE
RECLAMATION DISTRICT	PROP	PROPOSED
CLEANOUT	PB	PULL BOX
CONCRETE	RP	RADIUS POINT
CONSTRUCT	R	RADIUS
CORNER	RR	RAILROAD
CORRUGATED METAL PIPE	REINF	REINFORCEMENT
CORRUGATED STEEL ARCH PIPE	RC	REINFORCED CONCRETE
CORRUGATED STEEL PIPE	RCB	REINFORCED CONCRETE BOX
CURB AND GUTTER	RCR	REINFORCED CONCRETE PIPE
CAST IRON PIPE	RELOC	RELOCATE
COLUMN	RT	RIGHT
CUBIC YARD	R/W	RIGHT OF WAY
CULVERT	RVC	REVERSE VERTICAL CURVE
CURB FACE	RD	ROAD
DEPARTMENT	SS	SANITARY SEWER
DIAMETER	SH	SHEET
DRIVEWAY	SO	SOUTH OF
DROP INLET	SW	SIDEWALK
EASEMENT	SF	SQUARE FEET
EAST OF	SY	SQUARE YARD
EDGE OF PAVEMENT	STA	STATION
EDGE OF OIL	SHP	STEEL HIGH-PRESSURE PIPE
ELECTRIC	SO	STORM DRAIN
ELECTRIC METER	STD	STANDARD
ELEVATION	STR	STRUCTURE
EMBANKMENT	SURV	SURVEY
END OF CURB RETURN	STLT	STREETLIGHT
END OF CURVE	SNWA	SOUTHERN NEVADA WATER AUTH
EXISTING GROUND	T	TELEPHONE
END VERTICAL CURVE	TEMP	TEMPORARY
EXISTING	TBA	TO BE ADJUSTED
FREeway AND ARTERIAL	TBR	TO BE REMOVED
SYSTEM OF TRANSPORTATION	TC	TOP OF CURB
FINISHED FLOOR	TF	TOP OF FOOTING
FEET/FOOT	TP	TOP OF PIPE
FINISH GRADE	TS	TRAFFIC SIGNAL
FIRE ALARM	TSI	TRAFFIC SIGNAL INTERCONNECT
FIRE HYDRANT	TRANS	TRANSITION
FLOW LINE	TW	TOP OF RETAINING WALL
FINISHED SURFACE	TYP	TYPICAL
GALVANIZED	UG	UNDERGROUND
GAS METER	VAR	VARIABLE
GAS PRESSURE REGULATOR	VERT	VERTICAL
GRADE BREAK	VC	VERTICAL CURVE
GUTTER	VG	VALLEY GUTTER
HEADWALL	VCP	VITRIFIED CLAY PIPE
HIGH-POINT	VL	VAL
INCH	WM	WATER METER
INTERSECTION	WO	WEST OF
INVERT	YD	YARD



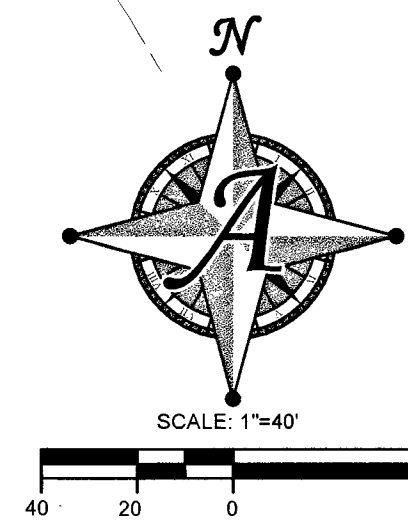
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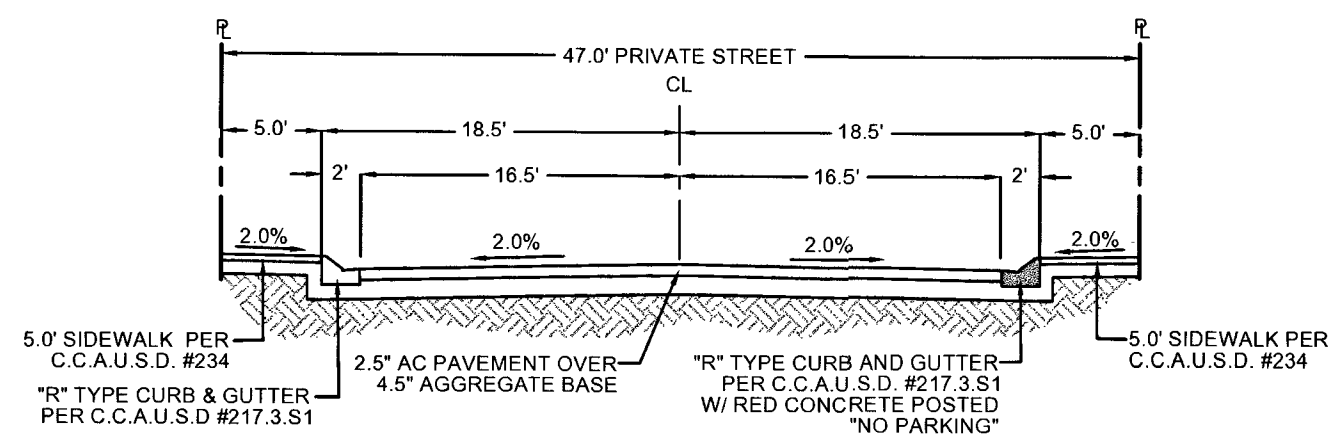


THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN 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.

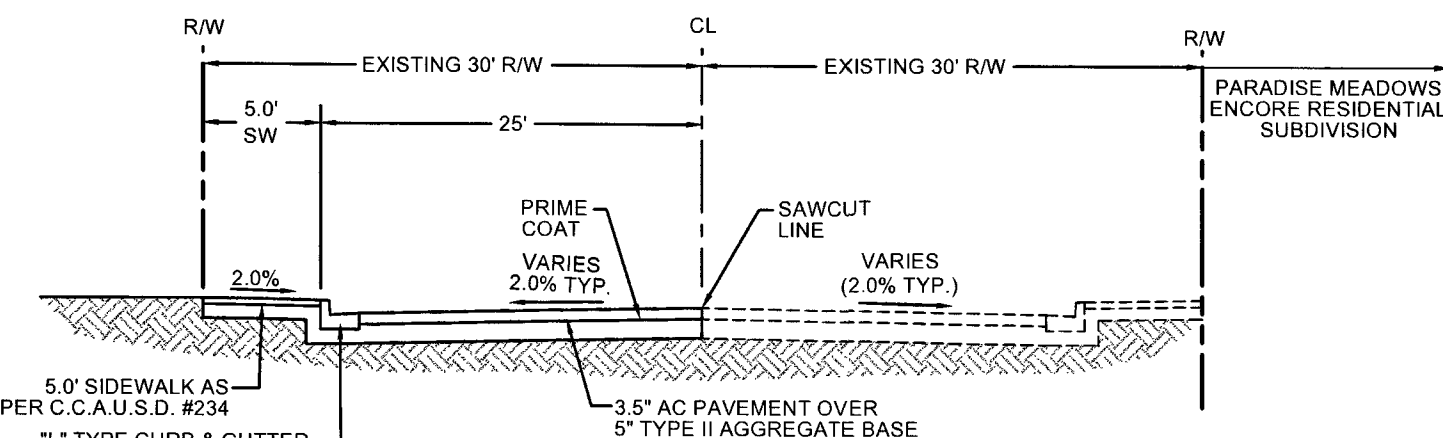
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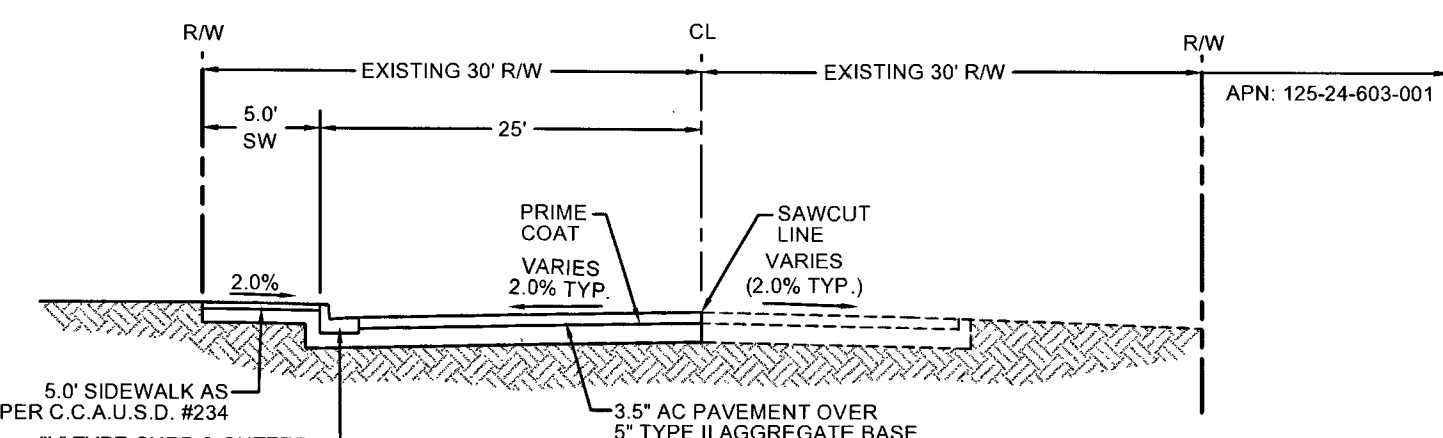




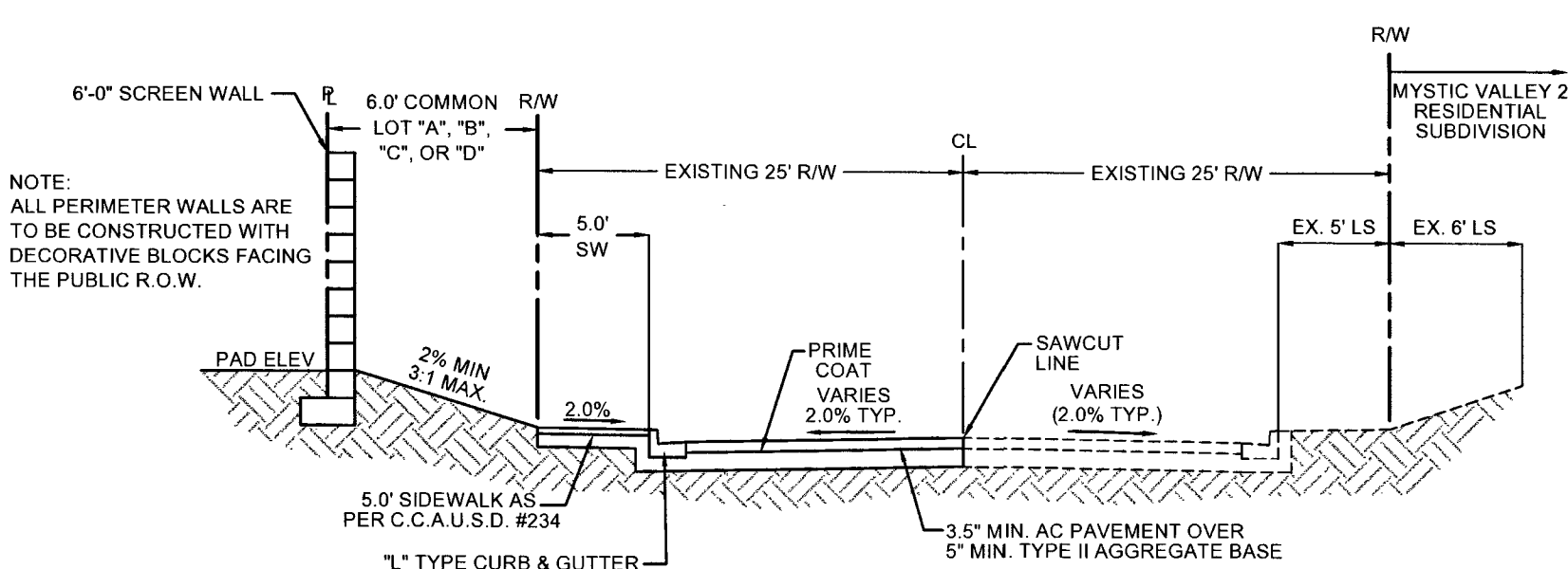
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NOT TO SCALE



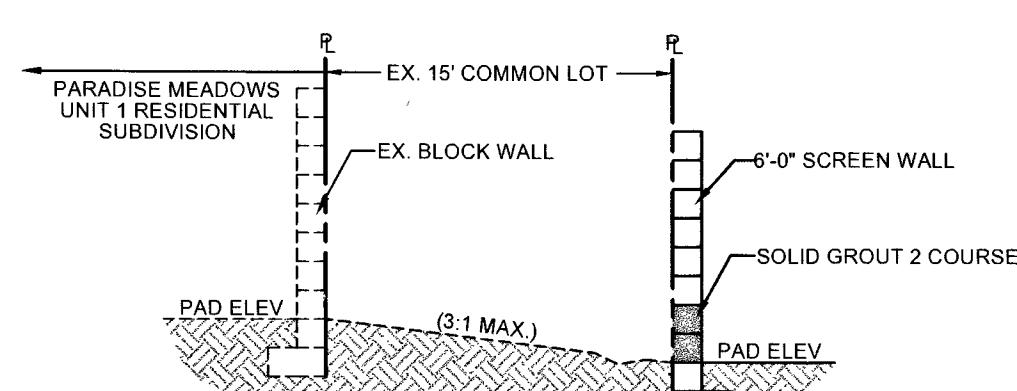
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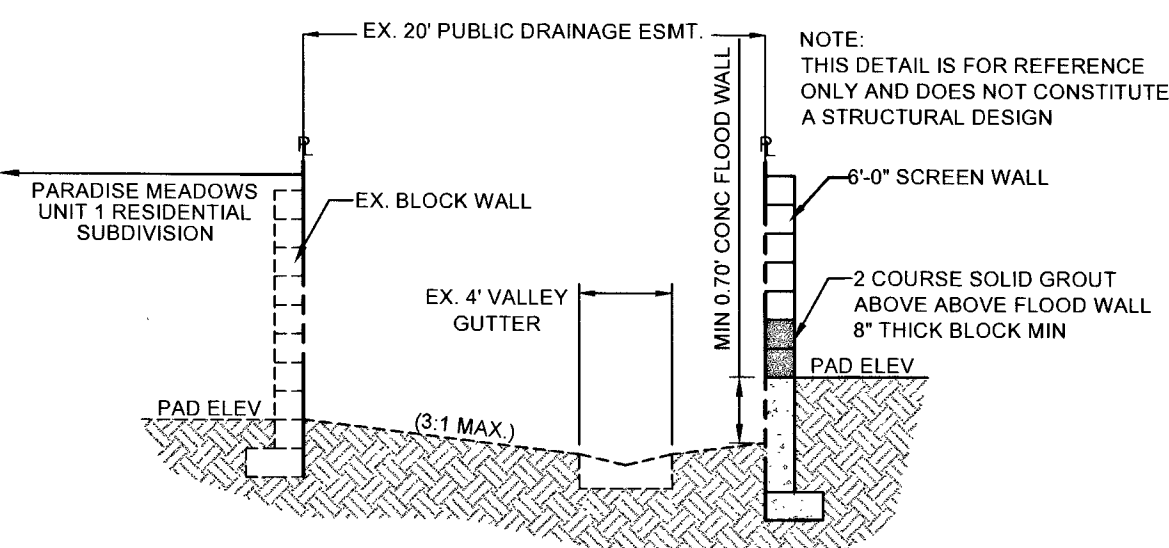
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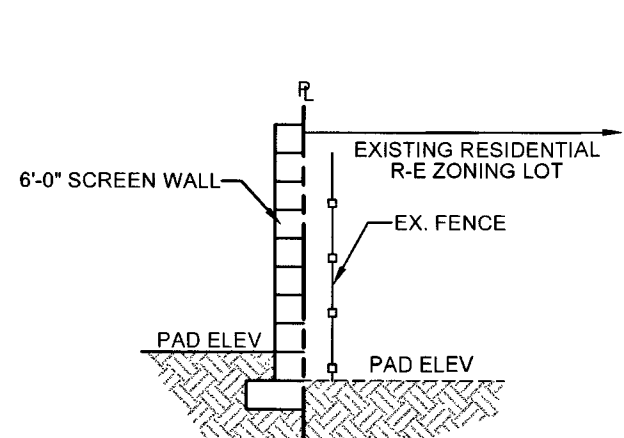
D DONALD ROAD SECTION
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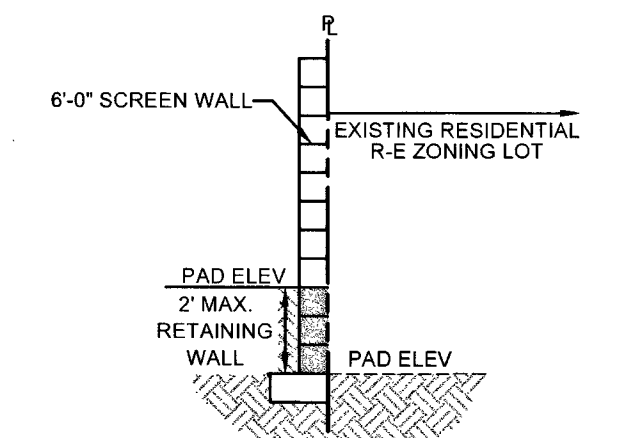
E WEST PROPERTY LINE SECTION
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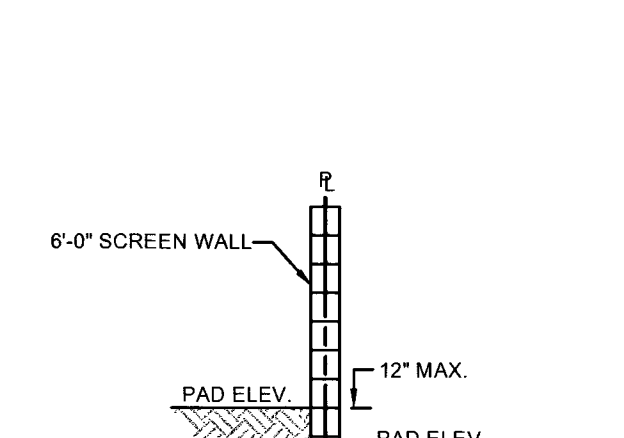
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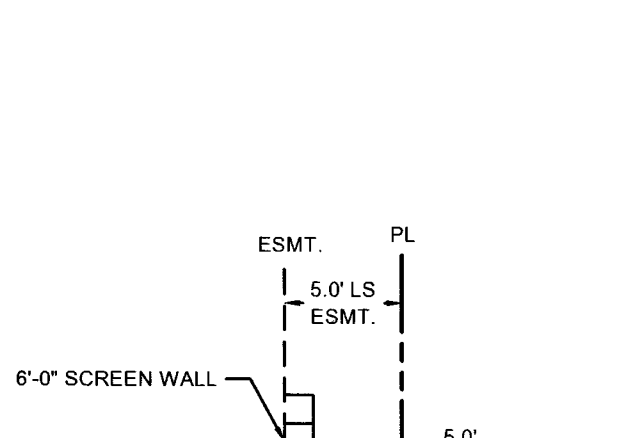
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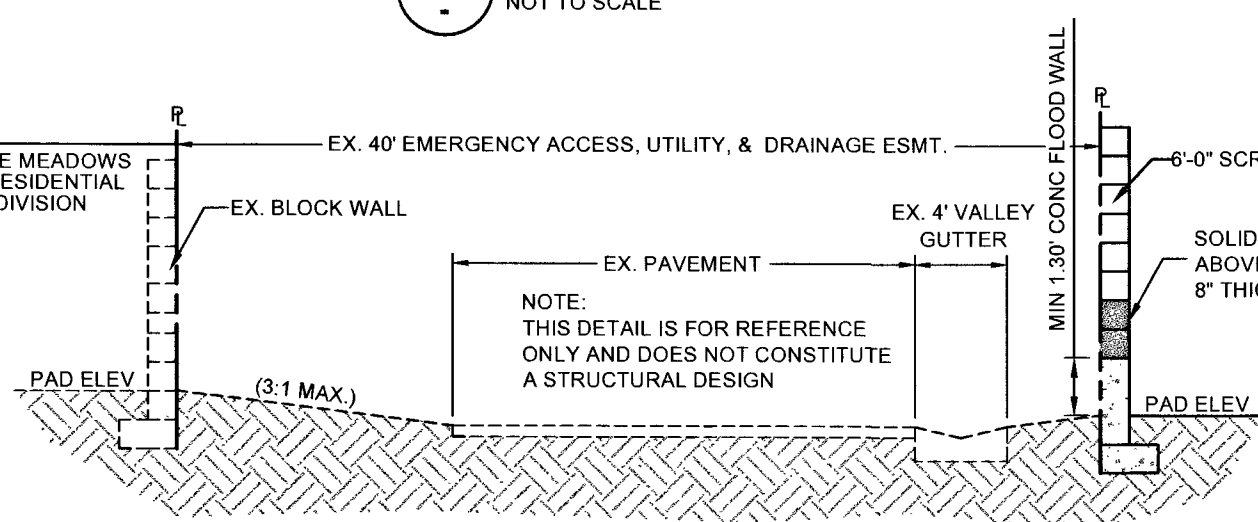
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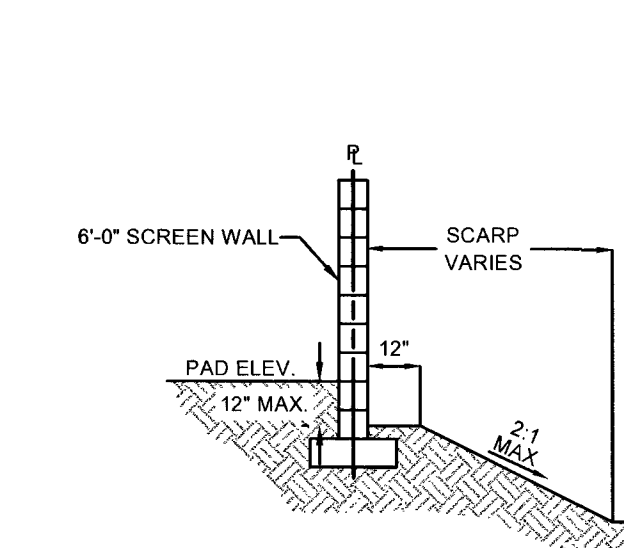
J LOT LINE SECTION
NOT TO SCALE



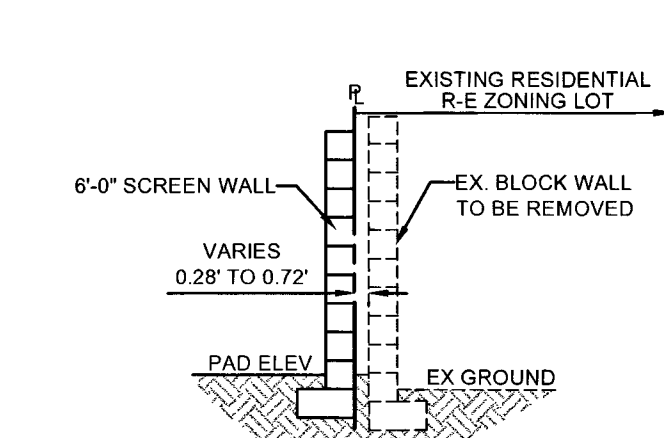
K SIDE YARD SECTION
NOT TO SCALE



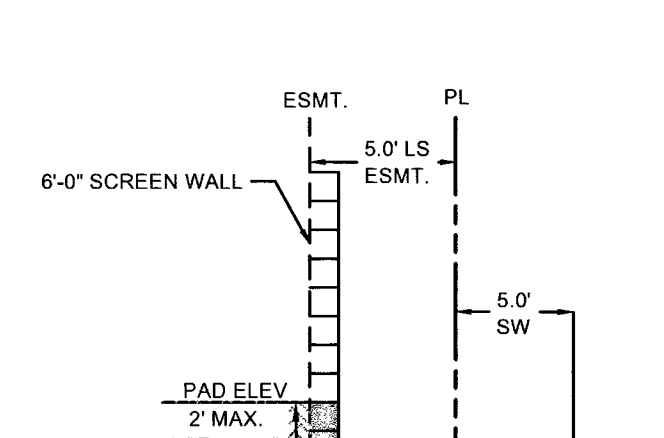
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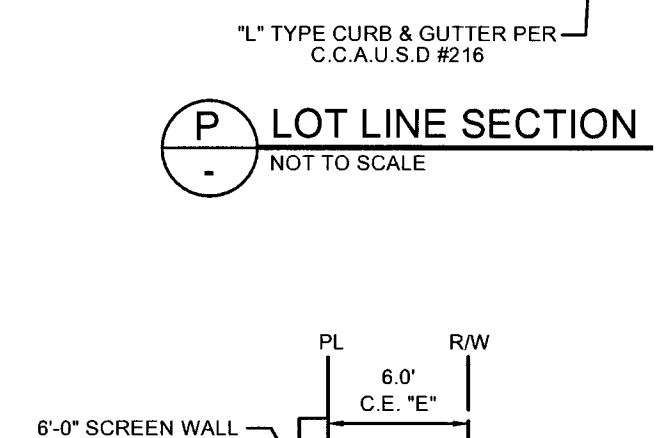
M LOT LINE SECTION
NOT TO SCALE



N EAST PROPERTY LINE SECTION
NOT TO SCALE



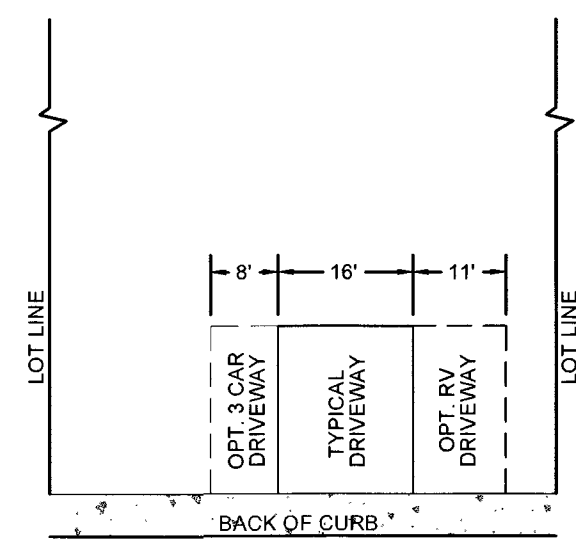
P LOT LINE SECTION
NOT TO SCALE



Q SOUTH PROPERTY LINE SECTION
NOT TO SCALE

WALL NOTES

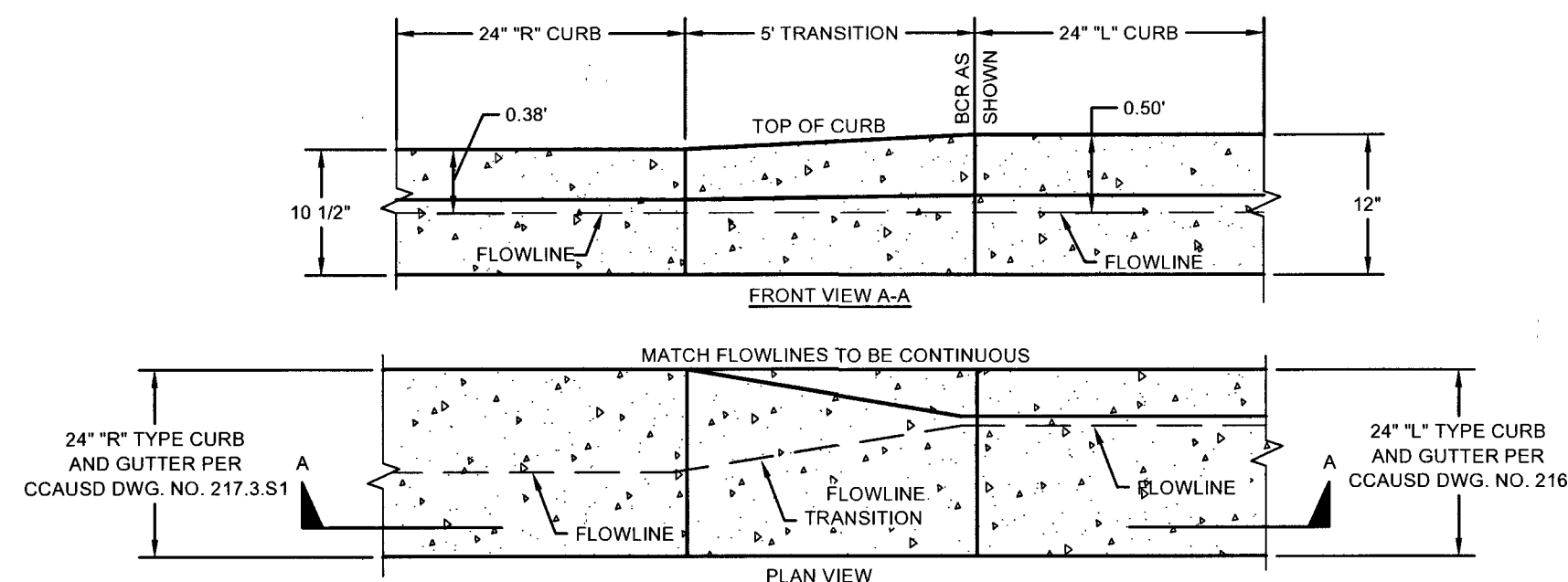
1. WALL DETAILS ARE FOR REFERENCE ONLY AND DO NOT CONSTITUTE A STRUCTURAL DESIGN.
2. CONSTRUCTION OF BLOCK WALLS REQUIRE A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. ALL PERIMETER WALLS TO BE CONSTRUCTED WITH DECORATIVE BLOCK FACING THE PUBLIC R.O.W.



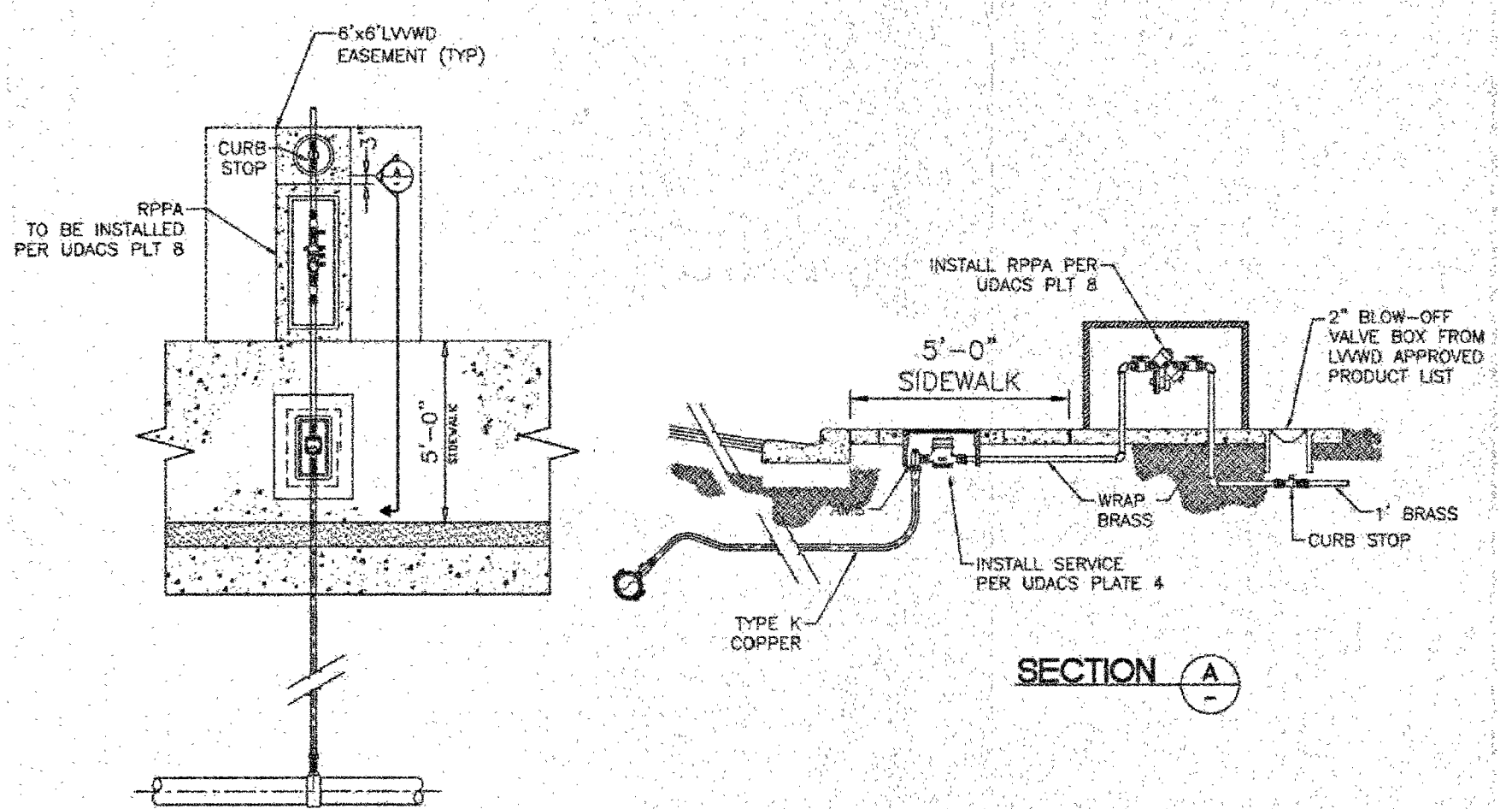
1 TYPE 'A' PAD GRADING DETAIL TYP.
NOT TO SCALE



2 "L" CURB TO VALLEY GUTTER TRANSITION DETAIL
NOT TO SCALE



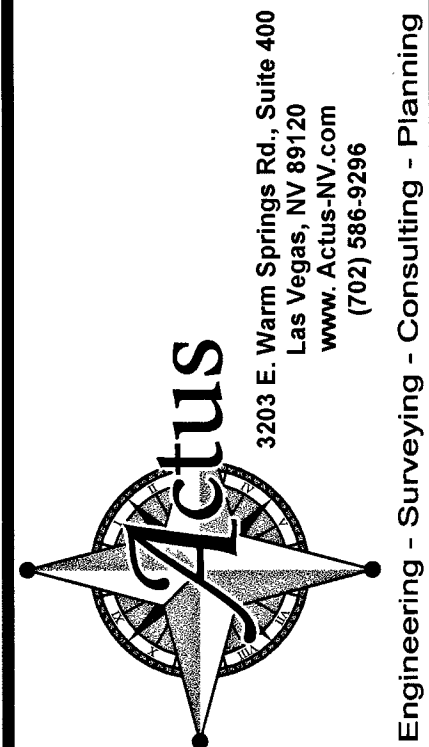
3 3' "L" CURB TO "R" CURB TRANSITION
NOT TO SCALE



4 METER WITH RPPA PER UDACS PLATE #4 AND #8 AND CURB STOP
NOT TO SCALE

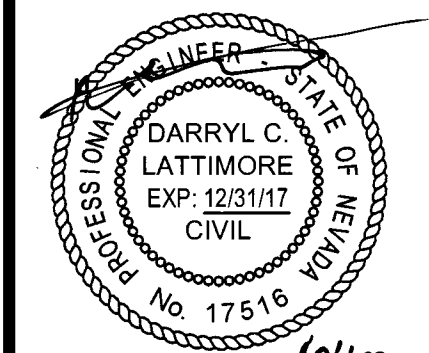
APPROVED FOR CONSTRUCTION

PROJECT NO. 125821 DATE 11-01-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

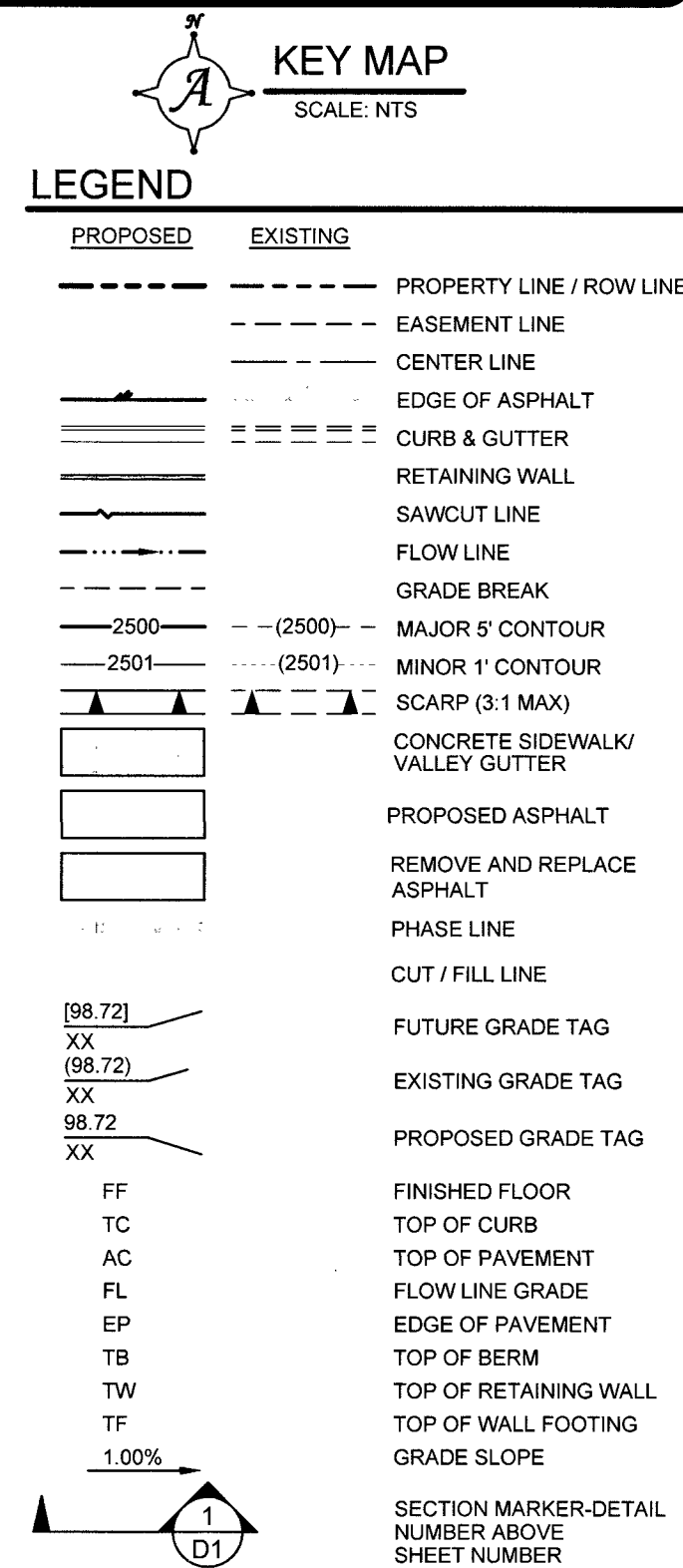
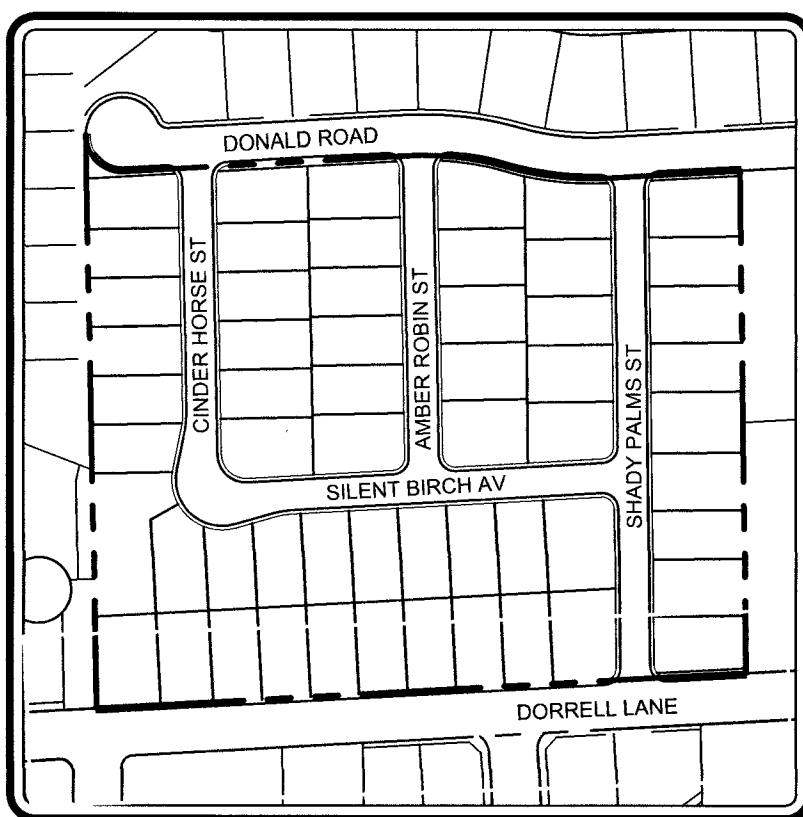


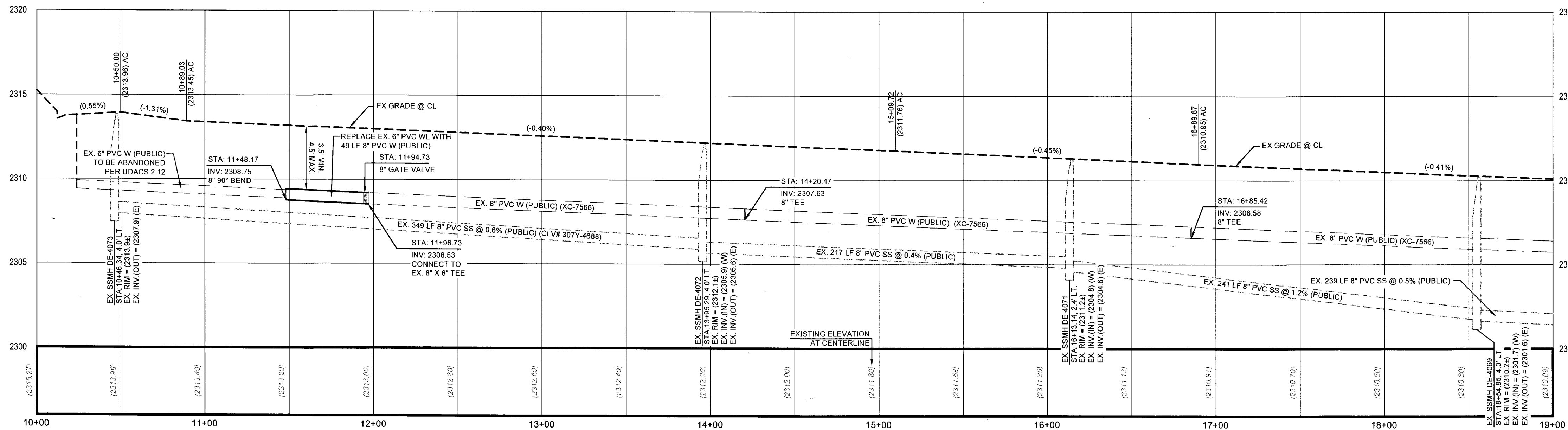
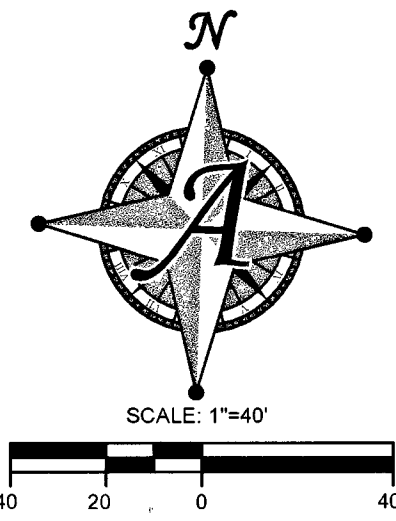
DETAILS
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA

BY	DATE	DESCRIPTION



DATE 10-18-2017
DRAWN RLS
DESIGNED ALW
CHECKED DCL
PROJECT # B2R011703
SHEET TITLE DETAILS
SHEET NUMBER C5
117-00041
CL# 10745067-1





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

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FIELDWORK, WIDENING AND HATCHING IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED LIP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- 1 CONSTRUCT "R" CURB AND GUTTER PER CCAUSD 217.3.51
- 2 CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
- 3 CONSTRUCT 8" CROSS GUTTER PER CCAUSD #228.
- 4 CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "5" ON SHEET C5
- 5 MATCH EX. ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER.
- 6 SIDEWALK RAMP PER CCAUSD #235 CASE 1. "A" & "B" = 8' UNLESS OTHERWISE NOTED.
- 7 CONSTRUCT PAD PER ANY OTHER PAD SECTION DETAIL "1" ON SHEET C5
- 8 SAWCUT EXISTING A.C. PAVEMENT PER PLAN
- 9 CONSTRUCT "L" CURB TO VALLEY GUTTER TRANSITION PER DETAIL "2" ON SHEET C5
- 10 INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
- 11 CONSTRUCT DROP INLET TYPE "CM" PER CCUSD 412.1 ONE 2.5' GRATE
- 12 CONSTRUCT "L" CURB AND GUTTER PER CCAUSD #216
- 13 3" TRANSITION "L" CURB TO "R" CURB PER DETAIL "3" ON SHEET C5
- 14 INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
- 15 "R" CURB PER CCAUSD # 217.3.51 & 3" "L" CURB TO "R" CURB TRANSITION PER CCAUSD #223.3
- 16 CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE & POST "NO PARKING"

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

- MAINTAIN MINIMUM 12' VERTICAL SEPARATION AT ALL POINT OF CROSSINGS
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

- ALL SEWER/STORM CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22 FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIME

GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

Johnnie Dean for DM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-09-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA).

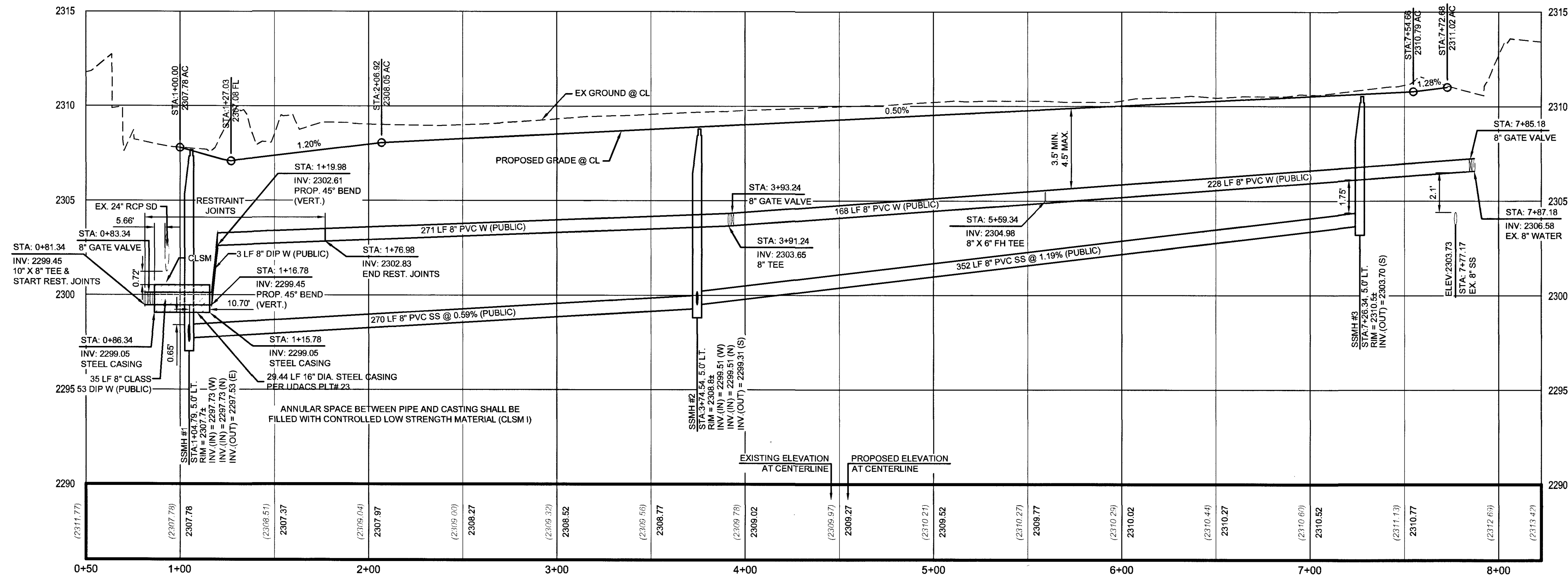
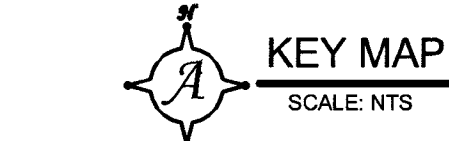
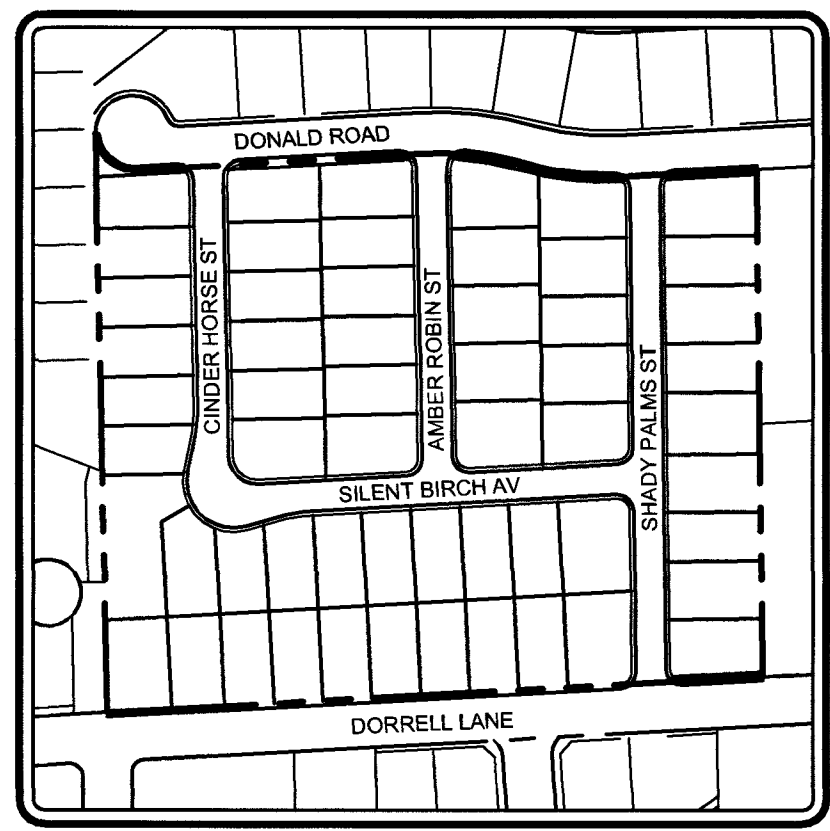
CITY OF LOS ANGELES BENCHMARK STATION: SEV90 E TREE.

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND BOBBELL LANE

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING, PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES 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.

Call before you dig Avoid cutting, underground utility lines. It's costly. CALL 811 Call before you dig Underground CLARK COUNTY TRAFFIC OPERATIONS 1-702-432-6000 2-702-432-5300 PREVENT DELAYS, IMPROVE TRANSPORTATION FLOW	Call before you dig Avoid hitting overhead power lines. It's costly. CALL BEFORE YOU DIG OVERHEAD 1-800-227-2600 OR 1-702-435-6000 AND 1-702-435-6000 CLARK COUNTY TRAFFIC OPERATIONS	1-702-227-2929
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SCALE: 1" = 40' - HORZ
1" = 4' - VERT

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. CONSTRUCTION SHALL BE CONSIDERED AS A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING PAVEMENT SAWCUT LINE TO PROPOSED EDGE OF PAVEMENT OR PROJECTED TOP OF CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- 1 CONSTRUCT "R" CURB AND GUTTER PER CCAUSD 217.3.51
- 2 CONSTRUCT 5' WIDE SIDEWALK PER CCAUSD #234.
- 3 CONSTRUCT 8" CROSS GUTTER PER CCAUSD #228.
- 4 CONSTRUCT RESIDENTIAL DRIVEWAY PER CCAUSD #223, #223.1, AND DETAIL "5" ON SHEET C5
- 5 MATCH EX ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY GUTTER.
- 6 SIDEWALK RAMP PER CCAUSD #235 CASE 1. "A" & "B" = 8' UNLESS OTHERWISE NOTED.
- 7 CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "1" ON SHEET C5
- 8 SAWCUT EXISTING A.C. PAVEMENT PER PLAN
- 9 CONSTRUCT "L" CURB TO VALLEY GUTTER TRANSITION PER DETAIL "2" ON SHEET C5
- 10 INSTALL 3.5" AC OVER 5" TYPE II AGGREGATE BASE
- 11 CONSTRUCT DROP INLET TYPE "GM" PER CCUSD 412.1 ONE 2.5' GRATE
- 12 CONSTRUCT "L" CURB AND GUTTER PER CCAUSD #216
- 13 3' TRANSITION "L" CURB TO "R" CURB PER DETAIL "3" ON SHEET C5
- 14 INSTALL 2.5" AC OVER 4.5" TYPE II AGGREGATE BASE
- 15 "R" CURB PER CCAUSD # 217.3.51 & 3 "L" CURB TO "R" CURB TRANSITION PER CCAUSD # 223
- 16 CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE & POST, NO PARKING

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

- MAINTAIN MINIMUM 12' VERTICAL SEPARATION AT ALL POINT OF CROSSINGS
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.

- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE #15.
- ALL SEWER/STORM CROSSING WATER LINES MUST CONFORM TO UDACS SECTION 2.22 FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE PER UDACS. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- MAINTAIN ADEQUATE COVER OVER EXISTING WATER INF (UDACS 2.08)

MAINTAIN MINIMUM TWENTY-FOUR (24) INCH COVER PER UDACS SECTION 2.08.04.
GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION

Shanne Dean for DDM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 125821 DATE: 11.09.17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

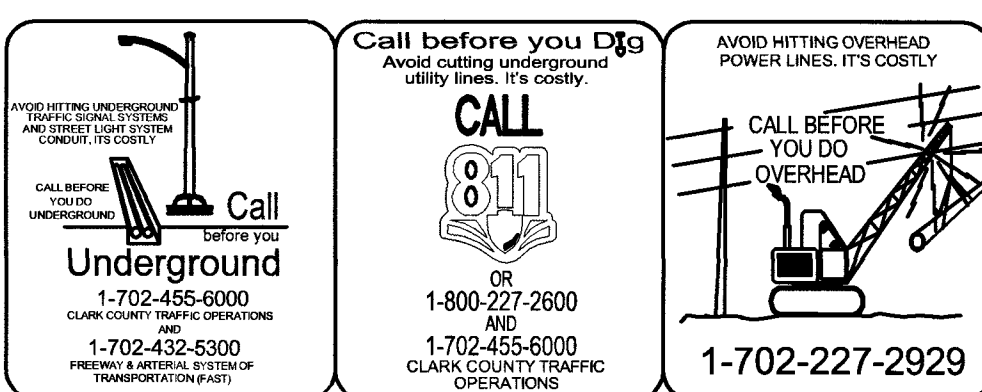
FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

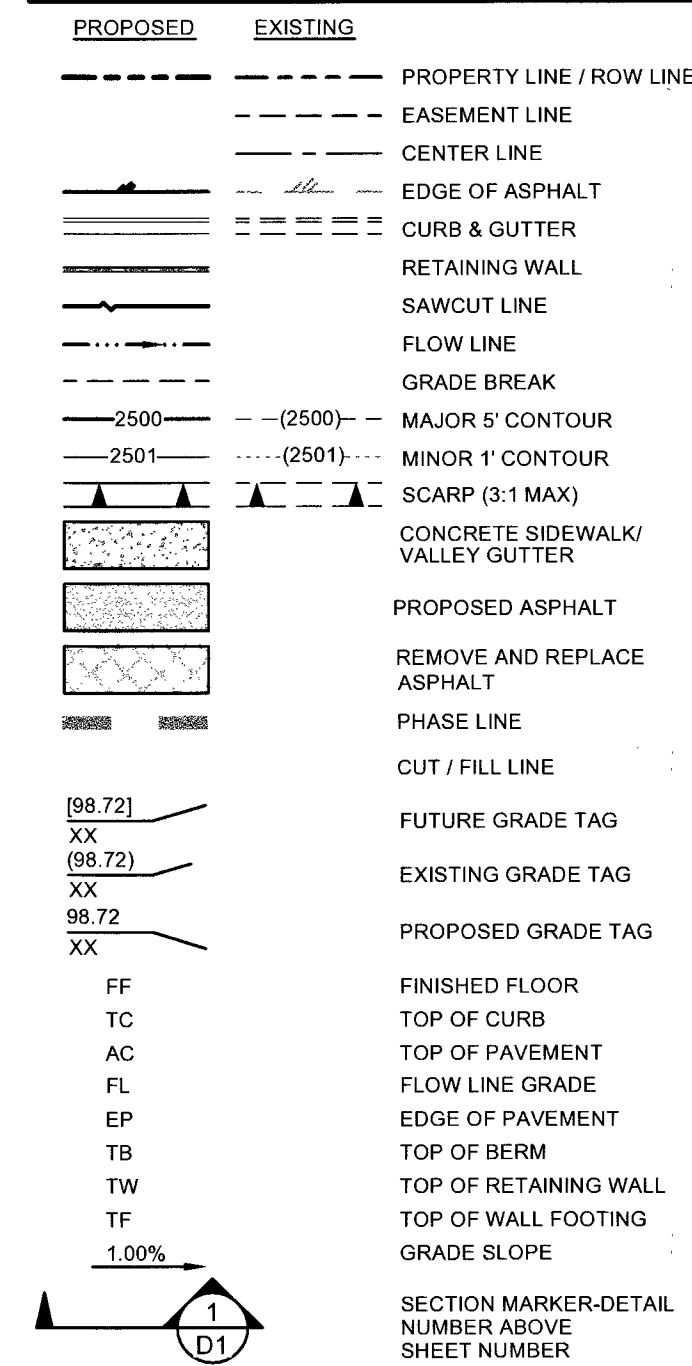
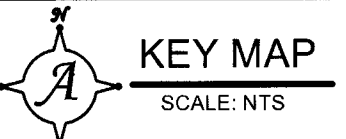
CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

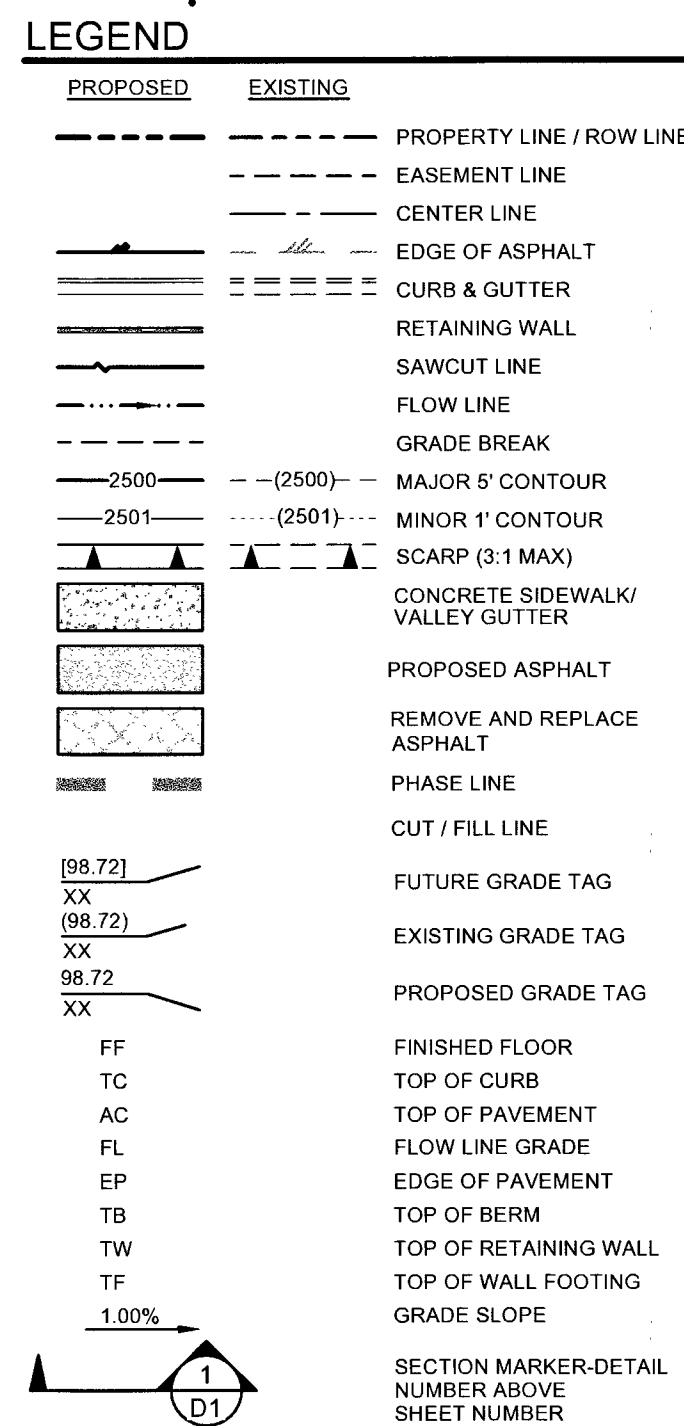
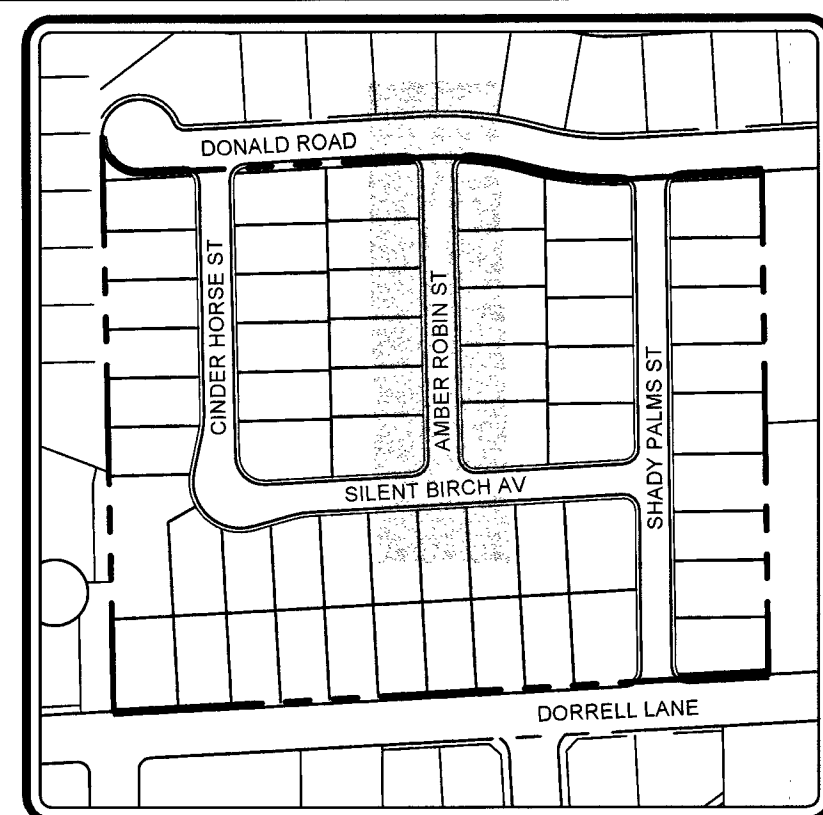
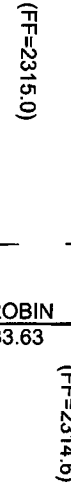
RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 6 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR NOT IN SERVICE. THE SURVEYOR DOES NOT GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR CERTIFIES THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.







1. ACTUS SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
2. CONSTRUCTION OF BLOCK WALLS REQUIRES A SEPARATE BUILDING PERMIT AND APPROVAL BY THE BUILDING DEPARTMENT.
3. FOR ROADWAY WIDENING AND HALF STREET IMPROVEMENTS THE CONTRACTOR SHALL VERIFY CROSS SLOPES FROM EXISTING ELEVATION SAWCUT LINE. EVIDENCE OF PAYMENT FOR PROPOSED LINE CURB PRIOR TO SUBGRADE PREPARATION AND CONSTRUCTION OF PROPOSED CURB LINE. IF MINIMUM OR MAXIMUM CROSS SLOPES DO NOT MEET AGENCY STANDARDS THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

- 1 CONSTRUCT "R" CURB AND GUTTER PER CCAUD 217.3.51
- 2 CONSTRUCT 5' WIDE SIDEWALK PER CCAUD #234.
- 3 CONSTRUCT 6" CROSS GUTTER PER CCAUD #228.
- 4 CONSTRUCT "S" IDENTIAL DRIVEWAY PER CCAUD #223.
#223.1, AND DETAIL "5" ON SHEET C5
- 5 MATCH EX. ASPHALT, CURB, SIDEWALK, GUTTER, OR VALLEY
GUTTER.
- 6 SIDEWALK RAMP PER CCAUD #235 CASE I. "A" & "B" = 8"
UNLESS OTHERWISE NOTED.
- 7 CONSTRUCT PAD PER TYPICAL PAD SECTION DETAIL "1" ON
SHEET C5
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- 12 CONSTRUCT "L" CURB AND GUTTER PER CCAUD #216
- 13 3" TRANSITION "L" CURB TO "R" CURB PER DETAIL "3" ON
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- 15 "R" CURB PER CCAUD #217.3.51 & 3" "L" CURB TO "R" CURB
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- 16 CONSTRUCT "R" CURB AND GUTTER WITH RED CONCRETE &
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ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

FLOOD DESIGNATION PROVIDED BY FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR
BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
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PROTECTING UNDERGROUND
CABLES FROM TRENCHING
OPERATIONS IS THE
EASIEST THING TO DO
IF YOU CALL US FIRST.

Call before you Dig

Avoid cutting underground
utility lines. It's costly.

CALL



OR

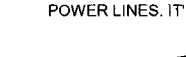
1-800-227-2600

AND

1-702-455-6000

CLARK COUNTY TRAFFIC
DEPARTMENT (402) 438-0041

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POWER LINES. IT'S COSTLY**



**CALL BEFORE
YOU DO
OVERHEAD**

1-702-227-2929

Underground

1-702-455-6000

CLARK COUNTY TRAFFIC DEPARTMENT

1-702-432-5300

FREEWAY & EASTERN SYSTEMS OF
INTERSTATE 15 (402) 438-0041

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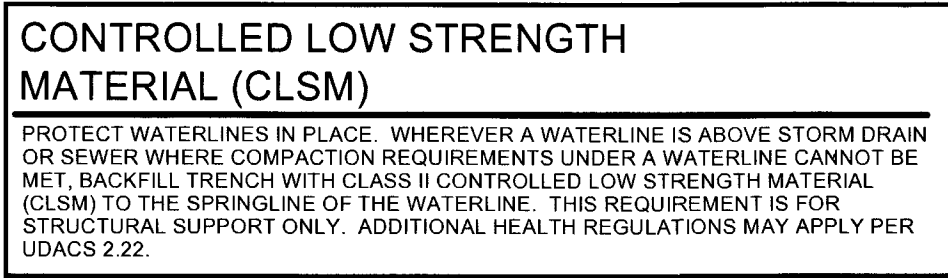
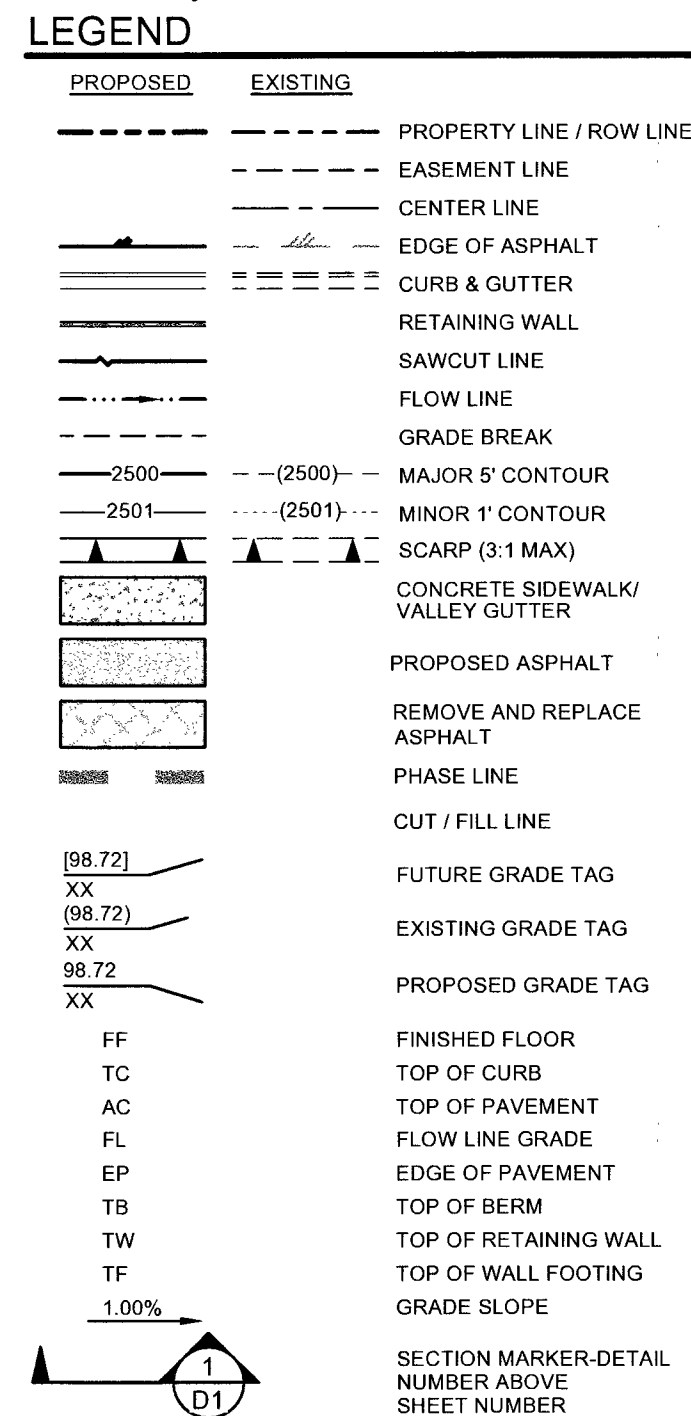
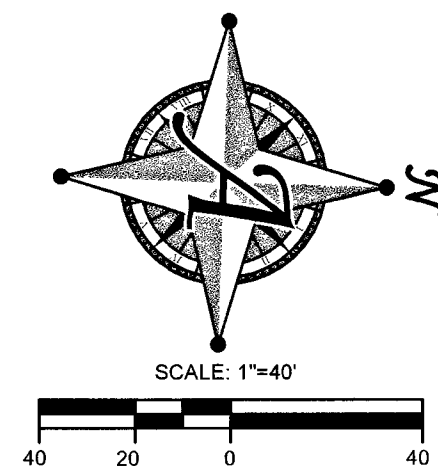
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GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

Shane Dean for DM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-09-17
I VVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL



1. ACTUS SHALL NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES IN THE PLANS OR CONDITIONS IN THE FIELD.
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GRADING MUST BE COMPLETED PRIOR TO WATERLINE INSTALLATION.

Shanne Dean for DWM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 125821 DATE: 11.09.17
1" WOOD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

ALL GRADING SHALL CONFORM TO GEOTECHNICAL REPORT
BY: WRIGHT ENGINEERS
ORIGINAL PROJECT NUMBER: 171053
DATED: MAY 19, 2017

THIS SITE IS LOCATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN, PER THE FLOOD INSURANCE RATE MAP COMMUNITY PANEL 32003C 1765F AND 32003C 2583F CLARK COUNTY, NEVADA DATED NOVEMBER 16, 2011.

BENCHMARK
CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NEE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF
BOULEVARD AND DORRELL LANE.

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF THE NORTHEAST QUARTER (NE $\frac{1}{4}$) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 1 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

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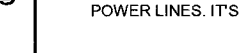
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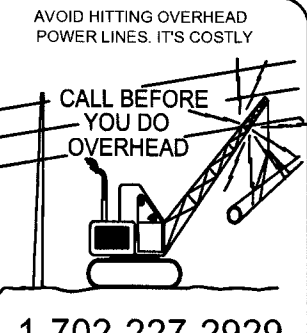
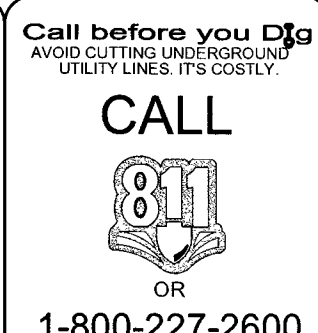
CALL 1-800-227-2600

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CLARK COUNTY TRAFFIC OFFICE

DISCLAIMER NOTE

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BENCHMARK

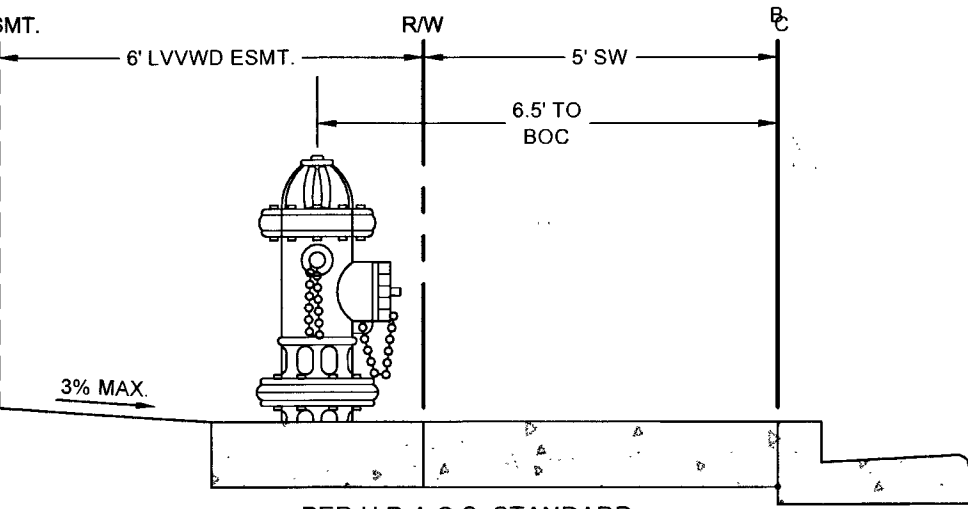
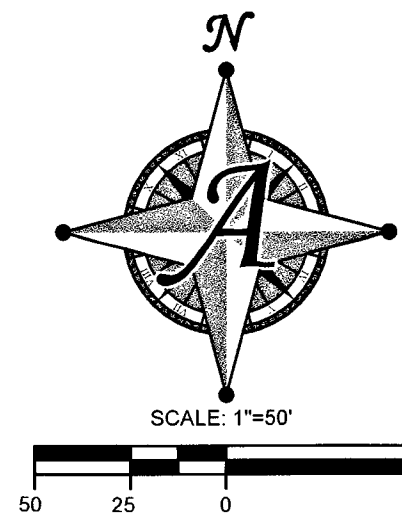
CITY OF LAS VEGAS BENCHMARK STATION: SLV90 24NE6

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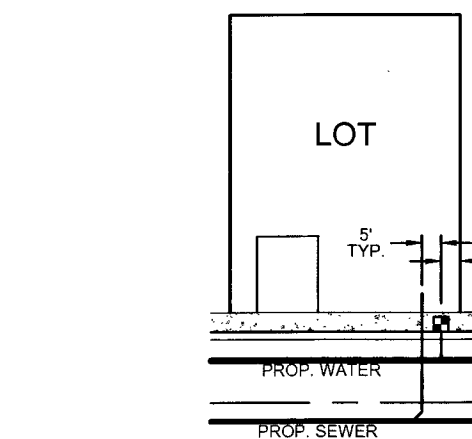
ELEVATION = 702.412 METERS (NAVD'83 2008 ADJUSTMENT)
ELEVATION = 7304.51 US SURVEY FEET (NAVD'83 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.



FIRE HYDRANT DETAIL W/ SIDEWALK
NOT TO SCALE
USD #518
FIRE HYDRANT(S) TO BE INSTALLED IN ACCORDANCE WITH THE UDACS STANDARD PLATE #40



TYP. UTILITY LOCATION
NTS

UTILITY NOTE

- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- THE PUBLIC AND/OR PRIVATE FIRE HYDRANT(S) USED TO OBTAIN THE FIRE FLOW ARE:
- THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE), PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPERS RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.

PRIVATE WELLS (WITH REVOCABLE RIGHTS) TO BE REMOVED FROM SERVICE

THE EXISTING PRIVATE WELL IS TO BE ABANDONED. THE DISTRICT WATER SERVICE WILL REMAIN IN THE OFF-AND-LOCKED POSITION UNTIL THE WELL HAS BEEN ABANDONED. THE STATE OF NEVADA DIVISION OF WATER RESOURCES (TELEPHONE NUMBER 702-486-2770) MAY BE CONTACTED FOR INFORMATION CONCERNING REQUIREMENTS AND PROCEDURES FOR ABANDONING WELLS. PROOF FROM THE STATE THAT THE WELL HAS BEEN ABANDONED AND IS NO LONGER FUNCTIONAL WILL BE REQUIRED AS A CONDITION OF PROJECT ACCEPTANCE AND SERVICE ACTIVATION.
GWMP# 15396, 15398, 15399, 15398, 15399
(ABANDONED PER WELL DRILLERS LOG REPORT # 38163, 65289)

SEWER MANHOLE TABLE

MH #	RIM	INV. IN	INV. OUT	NORTHING	EASTING
SSMH #1	2307.658	2297.73 (W) 2297.73 (N)	2297.53 (E)	11327.4161	9351.1485
SSMH #2	2308.788	2299.51 (W) 2299.51 (N)	2299.31 (S)	11597.1479	9347.9609
SSMH #3	2310.548	2301.00 (W) 2301.00 (N)	2300.80 (E)	11948.9240	9343.8337
SSMH #4	2310.149	2301.00 (W) 2301.00 (N)	2300.80 (E)	11582.9952	9090.5615
SSMH #5	2311.750	2302.57 (N)	2302.37 (E)	11972.7310	9082.9624
SSMH #6	2311.649	2302.57 (N)	2302.37 (E)	11567.9980	8817.8020
SSMH #7	2313.030	2306.44 (S)	2306.44 (S)	11954.8505	8810.2591

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCKS, BLOCK WALLS, OR FENCE TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S), BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.

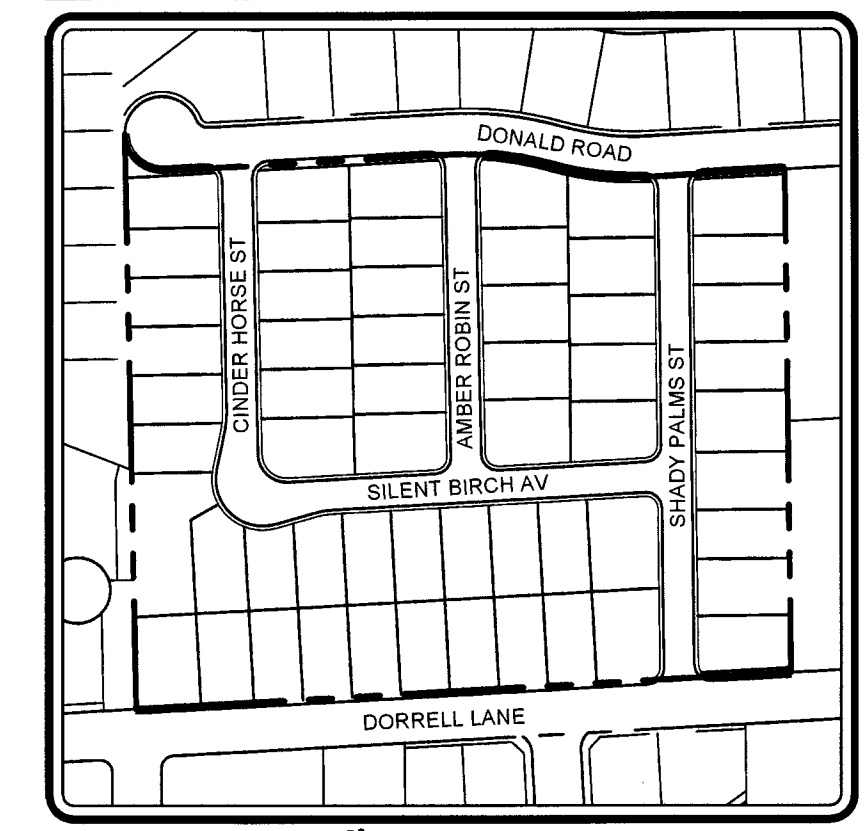
THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPED CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APURTANCES ARE AVAILABLE.

10-19-17
LAS VEGAS FIRE & RESCUE

APPROVED FOR CONSTRUCTION
Shawn Dean for DJM
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER

PROJECT NO. 125821 DATE: 11-09-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL



KEY MAP
SCALE: NTS

UTILITY LEGEND

- EXISTING RIGHT-OF-WAY/PROPERTY LINE
- EXISTING CENTER LINE
- EXISTING WATER LINE (SIZE PER PLAN)
- EXISTING SEWER LINE (SIZE PER PLAN)
- EXISTING GAS LINE (SIZE PER PLAN)
- PROPOSED WATER LINE (SIZE PER PLAN)
- PROPOSED SANITARY SEWER LINE (SIZE PER PLAN)
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING SEWER MANHOLE
- EXISTING LIGHT W/ POLE & BASE

SEWER CONTRIBUTION

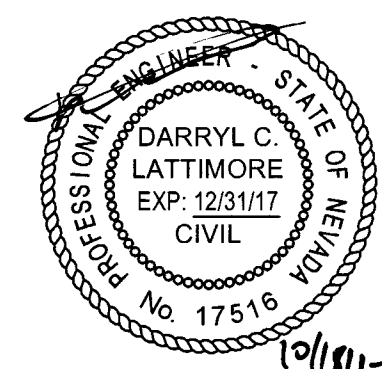
FACILITY TYPE: RESIDENTIAL
TOTAL RESIDENTIAL LOTS AT BUILD OUT: 57
57 UNITS x 250 GPD/UNIT / 1,000,000 = 0.01425 MGD (AVERAGE)
0.01425 x 3.5 = 0.049875 MGD (PEAK)
0.049875 x 1.25 = 0.06234375 MGD (WET PEAK)

FIRE FLOW CALCULATION

USE/OCCUPANCY: R-3
TYPE OF CONSTRUCTION: VB
FIRE FLOW: 1750 GPM @ 20 PSI
AUTOMATIC FIRE SPRINKLERS: NO
NFPA 13, 13R, 13D, ESFR
SQUARE FOOTAGE: 3909 SF
LARGEST AREA BETWEEN 4 HOUR WALLS: N/A
BUILDING HEIGHT: 28
OF STORIES INCLUDING BASEMENT: 2
HIGH PILED COMBUSTIBLE STORAGE: NO
OF HYDRANTS INSTALLED: 3

WATER METER NOTE

57 RESIDENTIAL LOT WATER METERS ARE TO BE 3/4"
2 COMMON LOT WATER METERS ARE TO BE 3/4"

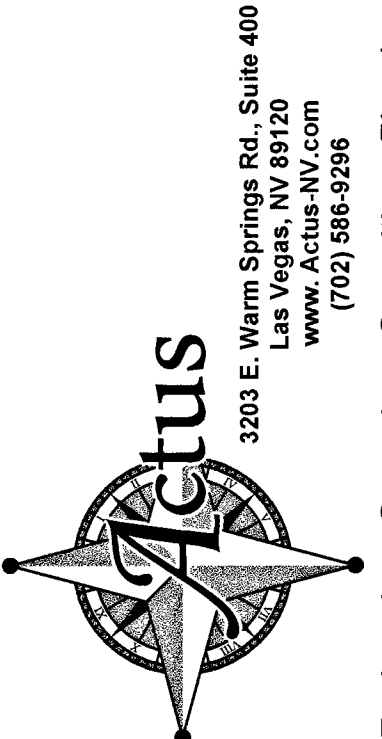


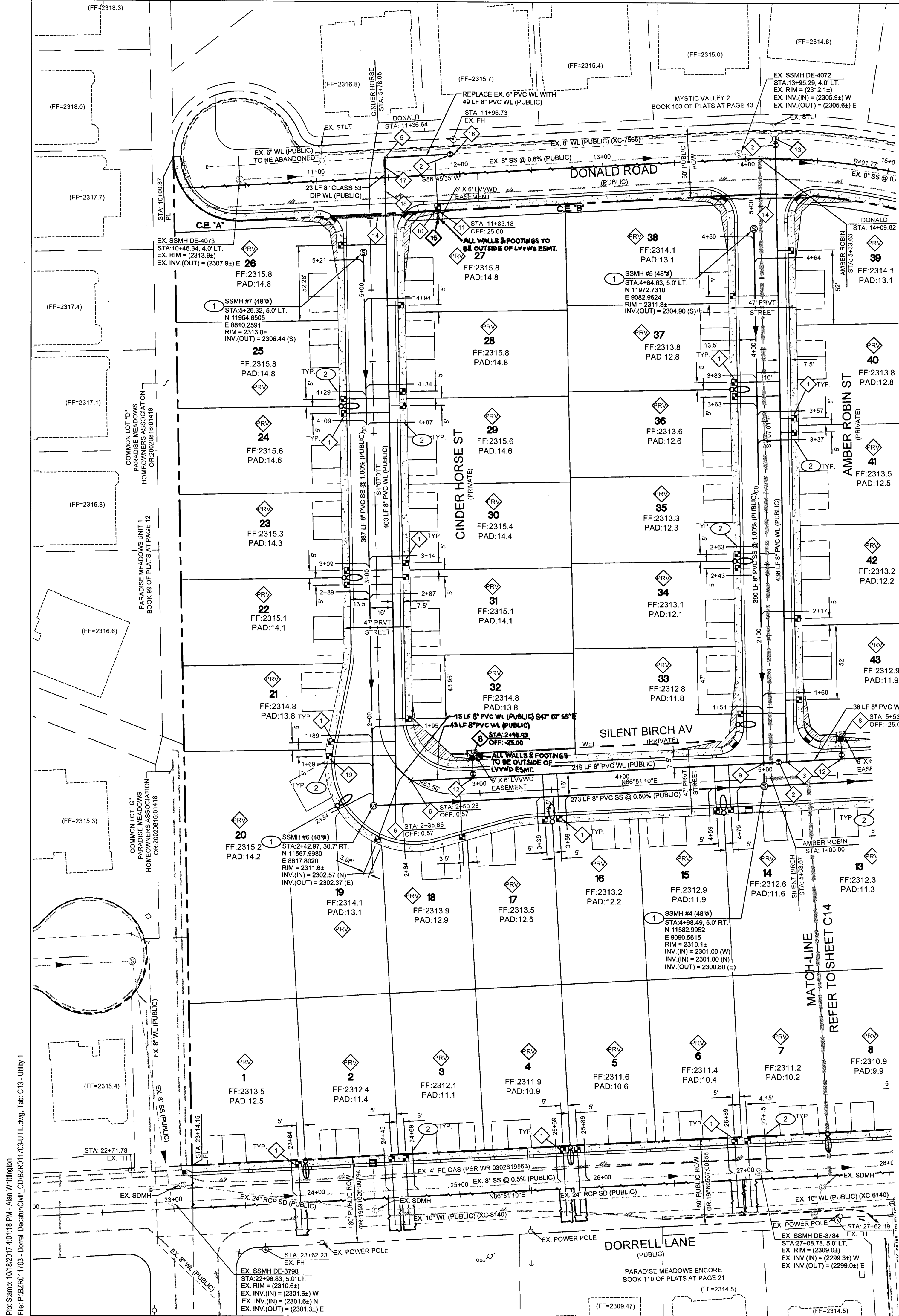
DATE: 10-18-2017
DRAWN: RLS
DESIGNED: ALW
CHECKED: DCL
PROJECT #: B2R011703

SHEET TITLE: MASTER UTILITY
SHEET NUMBER

C12
47-0046
CL# 107Y5067-1

MASTER UTILITY PLAN
DECATUR & DONALD I
BEAZER HOMES
CITY OF LAS VEGAS, NEVADA





WATER CONSTRUCTION NOTES

- 1. INSTALL 3/4" WATER METER (DOMESTIC) PER UDACS PLATE #1.
- 2. INSTALL 8" GATE VALVE PER UDACS PLATES #30 AND #31.
- 3. INSTALL 8" TEE W/ THRUST BLOCK PER UDACS PLATES #31.
- 4. INSTALL 10" X 8" TEE W/ VALVE PER UDACS PLATE #30, 31, 39.
- 5. INSTALL 8" 90° BEND W/ THRUST BLOCK PER UDACS PLATE #31.
- 6. INSTALL 8" 45° BEND W/ THRUST BLOCK PER UDACS PLATE #31.
- 7. NOT USED
- 8. INSTALL FIRE HYDRANT ASSEMBLY PER UDACS PLATE #40.
- 9. MAINTAIN SEPARATION BETWEEN WATER MAIN AND SANITARY SEWER PIPE PER UDACS STANDARD 2.2.22A.
- 10. INSTALL 3/4" WATER METER (IRRIGATION) PER UDACS PLATE #4.
- 11. INSTALL 3/4" RPPA (IRRIGATION) PER UDACS PLATE #8 WITH CURB STOP PER DETAIL "A" ON SHEET C5.
- 12. INSTALL 6" X 8" TEE PER UDACS PLATE #31.
- 13. 8" X 8" TAPPING SLEEVE W/ TAPPING VALVE PER UDACS PLATE #34, 39, & 2.24.01A.
- 14. INSTALL 2 - 8" IRRIGATION SLEEVES.
- 15. INSTALL CURB STOP IN 2" BLOWOFF BOX.
- 16. CONNECT TO EXISTING 8" X 8" TEE.
- 17. INSTALL STEEL CASING PER UDACS PLATE #22.
- 18. INSTALL PVC TO DIP COUPLING.
- 19. INSTALL 3/4" WATER METER (DOMESTIC) PER UDACS PLATE #3.
- 20. PRESSURE REDUCING VALVE.

SEWER CONSTRUCTION NOTES

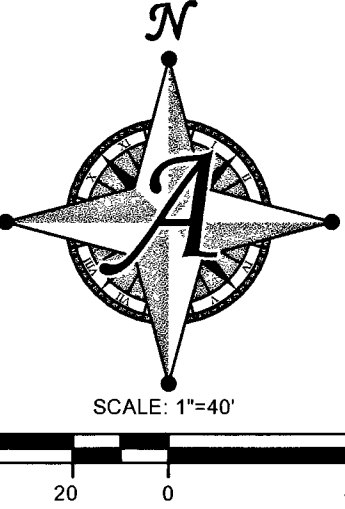
- 1. INSTALL 48" STANDARD PRECAST MANHOLE WITH 24" SINGLE END PER DCSWCS SD-23.1, SD-2, SD-18, SD-4 & SD-5.
- 2. INSTALL 4" PVC SEWER LATERAL @ MINIMUM 2.0% SLOPE. 4" SEWER WYE PER DCSWCS SD-23 & SD-25. STUB AND CAP 4" SEWER LATERAL & PAST PROPERTY LINE.
- 3. INSTALL 48" CAST-IN-PLACE MANHOLE PER DCSWCS DWG SD-4, SD-7, & SD-9. SEE CAST-IN-PLACE MANHOLE NOTE.

UTILITY NOTES:

- SEWER FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH "DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS" LATEST EDITION, WHERE APPLICABLE.
- ALL WATERLINE FACILITIES CONSTRUCTION SHALL BE IN ACCORDANCE WITH "UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS" (UDACS) LATEST EDITION.
- REPLACE ALL TRAFFIC CONTROL DEVICES (SIGNS OR PAVEMENT MARKINGS) UNDER CLARK COUNTY JURISDICTION THAT ARE DISTURBED, DESTROYED, MOVED OR MODIFIED BY TRENCHING ACTIVITY TO CLARK COUNTY SATISFACTION. ALL MATERIALS USED SHALL MEET CLARK COUNTY'S SPECIFICATIONS, OR WILL BE AN APPROVED EQUIVALENT.
- FOR ANY UTILITY CUTS, TRENCH BACKFILL PER CCAUSD #503 THAT APPLIES (SEE NEW RTC SPECS).
- DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- ALL SEWER/STORM DRAINS CROSSING WATER LINES MUST CONFORM TO SECTION 2.22 OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS) FOR WATER AND STORM MAIN CROSSINGS AND CLEARANCES.
- ADJUST ALL WATER VALVES BOXES TO FINISHED GRADE PER UDACS PLATE NO. 39. VALVE SHALL BE ACCESSIBLE AT ALL TIMES.
- ADJUST ALL MANHOLES TO FINISHED GRADE.
- ADJUST ALL EXISTING UTILITY BOXES/VAULTS TO FINISHED GRADE.
- CONTRACTOR TO VERIFY ALL EXISTING UTILITIES CROSSING PROPOSED UTILITIES PRIOR TO CONSTRUCTION.
- ENTIRE PROJECT SITE AND ALL PROPOSED LINES ARE PART OF THE 2538 PRESSURE ZONE SYSTEM.
- NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES AND STREETLIGHT POLE, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPE MEDIANS.
- ELEVATION OF PROPOSED AND EXISTING GAS MAINS ARE NOT KNOWN.
- INSTALL PIPELINE MARKER BALLS IN TRENCH ABOVE EACH HORIZONTAL ELBOW FITTING, PER UDACS PLATE #15.
- ANY EXCAVATION AT BACK OF CURB MUST REMAIN OPEN FOR INSPECTION OF COPPER SERVICE LATERALS. ANY COPPER SERVICE LATERAL KINKED, BENT OR OTHERWISE DAMAGED MUST BE REPLACED FROM THE MAIN TO THE ANGLE METER STOP.
- ALL WATER MAINS TO BE INSTALLED PER UDACS PLATE #17.
- PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.
- THE PUBLIC AND/OR PRIVATE FIRE HYDRANT(S) USED TO OBTAIN THE FIRE FLOW ARE.
- THIS PROPERTY MAY HAVE STATIC WATER PRESSURE IN EXCESS OF 80 PSI. THE UNIFORM PLUMBING CODE REQUIRES THE INDIVIDUAL, ON-SITE (PRIVATE) PRESSURE-REDUCING VALVES BE INSTALLED WHENEVER THE PRESSURE EXCEEDS 80 PSI. PRVS ARE THE DEVELOPER'S RESPONSIBILITY, AND WILL NOT BE INSPECTED OR INCLUDED IN THE ACCEPTANCE OF LVVWD FACILITIES.
- SERVICE LATERALS FOR LOTS 14-19 WILL BE TAPPED ON EXISTING MAIN BY OWNERS' CONTRACTOR UNDER DIRECTION OF THE LVVWD.

FIRE FLOW CALCULATION

USE/OCCUPANCY:	R-3
TYPE OF CONSTRUCTION:	VB
FIRE FLOW: 1750 GPM @ 20 PSI	
AUTOMATIC FIRE SPRINKLERS:	NO
NFPA 13: 13R: 13D: ESFR:	
SQUARE FOOTAGE:	3909 SF
LARGEST AREA BETWEEN 4 HOUR WALLS:	1
BUILDING HEIGHT:	2
# OF STORIES INCLUDING BASEMENT:	2
# OF HIRED COMBUSTIBLE STORAGE:	NO
# OF HYDRANTS INSTALLED:	3



CAST-IN-PLACE SEWER MANHOLE BASE

CAST-IN-PLACE MANHOLE BASE REQUIRED TO CURE FOR A MINIMUM OF 7 DAYS BEFORE MANHOLE COMPONENTS CAN BE SET.

WATER MAIN JOINT DEFLECTION (PVC, 4"-24")

PVC PIPE SHALL BE DEFLECTED AT THE JOINT ONLY. THE MAXIMUM ALLOWABLE DEFLECTION SHALL BE ONE (1) DEGREE PER JOINT WITH A MINIMUM RADIUS OF CURVATURE OF 1,150 FEET, PER UDACS 2.07.01 AND 2.07.02.

FOR CHANGED IN DIRECTION EXCEEDING THE MAXIMUM ALLOWABLE JOINT DEFLECTION FITTINGS SHALL BE USED.

REDUCED PRESSURE PRINCIPLE ASSEMBLY

(5) 1" (IRRIGATION)
APPROVED REDUCED PRESSURE PRINCIPLE ASSEMBLY(S) SHALL BE INSTALLED PER THE UDACS PLATE #8. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE REDUCE PRESSURE PRINCIPLE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY THE LVVWD.

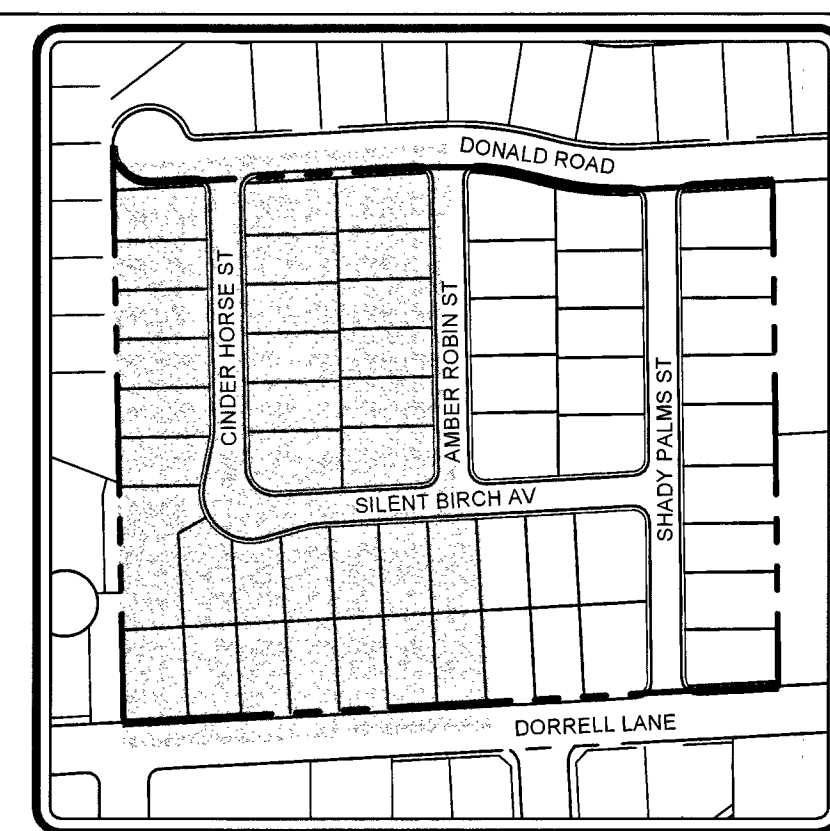
ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS FROM THE ADJACENT RIGHT OF WAY.
EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE STORM DRAIN OR SEWER WHERE COMPACTON REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL TRENCH WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

EASEMENT WITH TREES, SHRUBS, DECORATIVE ROCK, BLOCK WALL, OR FENCE

TREES, SHRUBS, OR DECORATIVE ROCKS, AND ANY BLOCK WALL OR OTHER FENCE MATERIAL, SHALL BE DESIGNED AND CONSTRUCTED AROUND THE EASEMENT(S) TO ALLOW THE DISTRICT DIRECT ACCESS TO THE VAULT(S) BACKFLOW ASSEMBLIES, AND PIPING FROM THE ADJACENT RIGHT-OF-WAY.



UTILITY LEGEND

- EXISTING RIGHT-OF-WAY/PROPERTY LINE
- EXISTING WATER LINE (SIZE PER PLAN)
- EXISTING SEWER LINE (SIZE PER PLAN)
- PROPOSED WATER LINE (SIZE PER PLAN)
- PROPOSED SANITARY SEWER LINE (SIZE PER PLAN)
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED WATER METER
- PROPOSED SEWER MANHOLE
- PROPOSED SEWER WYE (SIZE AND DIRECTION PER PLAN)
- EXISTING SEWER MANHOLE
- PROPOSED 150W STREETLIGHT
- PROPOSED 100W STREETLIGHT
- EXISTING LIGHT W/ POLE & BASE
- EXISTING POWER POLE
- EXISTING FIRE HYDRANT

PROTECT IN PLACE AND ADJUST LVVWD EXISTING FACILITIES TO FINISHED GRADE. ALL LVVWD FACILITIES SHALL BE ACCESSIBLE AT ALL TIMES.

ALL ON-SITE PRIVATE STREETS ARE PUBLIC UTILITY EASEMENTS TO BE PRIVATELY MAINTAINED BY HOA

SIGHT VISIBILITY RESTRICTION ZONES

CAUSD DWG. NO. 2012
SIGHT VISIBILITY ZONE NOTE
NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES AND STREET LIGHT POLES, MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED AT LESS THAN 24 INCHES IN HEIGHT, MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPE MEDIANS.
PLEASE REFER TO TRAFFIC SHEETS C15 & C16 FOR SIGHT VISIBILITY ZONE DIMENSIONS.

WATER METER NOTE

57 RESIDENTIAL LOT WATER METERS ARE TO BE 3/4". 2 COMMON LOT WATER METERS ARE TO BE 3/4".

GRADING NOTE

MINIMUM 24" OF COVER PER UDACS 2.08.04. GRADING MUST BE COMPLETED PRIOR TO WATER LINE INSTALLATION.

FOR ALL DRY UTILITY CROSSINGS

- MAINTAIN MINIMUM 12" VERTICAL SEPARATION AT ALL POINT OF CROSSINGS
- MAINTAIN MINIMUM 3' PARALLEL SEPARATION

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES 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.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

BENCHMARK

CITY OF LAS VEGAS BENCHMARK STATION: 5LV90 24NE6

RIVET AND PLATE IN THE TOP OF CURB AT THE SOUTHWEST CORNER OF DECATUR BOULEVARD AND DORRELL LANE.

ELEVATION = 702.412 METERS (NAVD'88 2008 ADJUSTMENT)
ELEVATION = 2304.51 US SURVEY FEET (NAV'88 2008 ADJUSTMENT)

BASIS OF BEARING

NORTH 00°47'07" WEST, BEING THE BEARING OF EAST LINE OF THE NORTHEAST QUARTER (NE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 24, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., CITY OF LAS VEGAS, CLARK COUNTY, NEVADA, AS RECORDED IN FILE 106 OF SURVEYS AT PAGE 81, OFFICIAL RECORDS OF CLARK COUNTY, NEVADA.

DISCLAIMER NOTE

THE UNDERGROUND UTILITIES AS SHOWN HEREON HAVE BEEN LOCATED FROM OBSERVED FIELD SURVEY EVIDENCE AND EXISTING DRAWINGS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: PLANS PROVIDED BY THE CLIENT, UTILITY COMPANIES, AND MUNICIPAL AGENCIES. THE SURVEYOR MAKES NO GUARANTEES 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.

THE DISTRICT CANNOT GUARANTEE A WATERTIGHT SHUTDOWN WHERE CONNECTIONS OR REPAIRS TO EXISTING FACILITIES ARE REQUIRED. THE CONTRACTOR SHALL ENSURE ALL LABOR AND EQUIPMENT IS AVAILABLE TO REMOVE FUGITIVE WATER THAT MAY IMPEDE CONSTRUCTION AT ALL TIMES. COORDINATION WITH INSPECTION DIVISION MUST TAKE PLACE PRIOR TO ANY TRIAL SHUTDOWN.

CONTRACTOR TO INSTALL TEMPORARY SERVICE TO ENSURE PROPER SHUTDOWN IN THE EVENT NO OTHER APPURTENANCES ARE AVAILABLE.

APPROVED FOR CONSTRUCTION
10-19-17
LAS VEGAS FIRE & RESCUE

APPROVED FOR CONSTRUCTION
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. 125821 DATE: 11-09-17
LVVWD APPROVED FIRE FLOW 1750 GPM AT 20 PSI RESIDUAL

Call before you Dig
Avoid hitting underground utility lines. It's costly.

CALL 811

Underground

1-702-455-6000
CLARK COUNTY TRAFFIC OPERATIONS

Call before you Dig
Avoid hitting overhead power lines. It's costly.

CALL BEFORE YOU DO OVERHEAD

1-800-227-2600
CLARK COUNTY TRAFFIC OPERATIONS

Call before you Dig
Avoid hitting overhead power lines. It's costly.

CALL BEFORE YOU DO OVERHEAD

1-702-227-2929

UTILITY PLAN 1

DECATUR & DONALD I

BEAZER HOMES

CITY OF LAS VEGAS, NEVADA

DATE: 10-18-2017

DRAWN: RLS

DESIGNED: ALW

CHECKED: DCL

PROJECT #: BZFR011703

SHEET TITLE: UTILITY

SHEET NUMBER: C13

47-0000

CLV# 10715067-1

Actus

3303 E. Warm Springs Rd, Suite 400
Las Vegas, NV 89120
www.actus-nv.com
(702) 886-9296

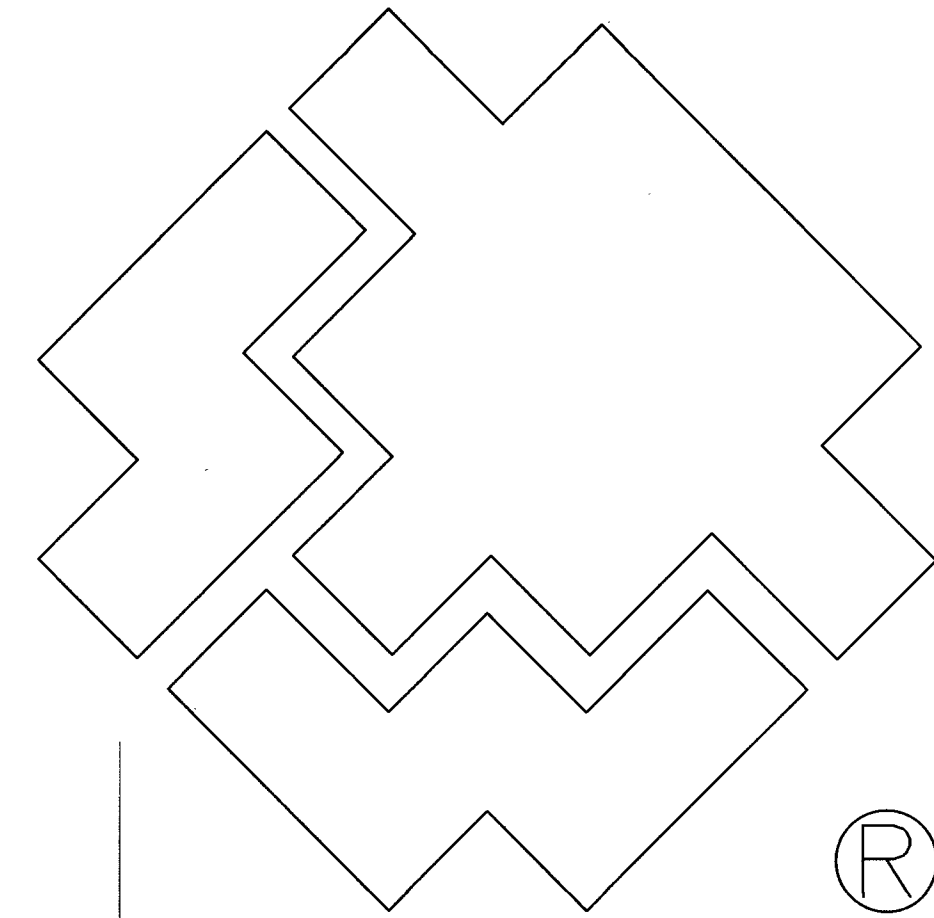
Engineering - Surveying - Planning

10/19/17

125821

11-09-17

10-19-17



SOUTHWEST GAS CORPORATION

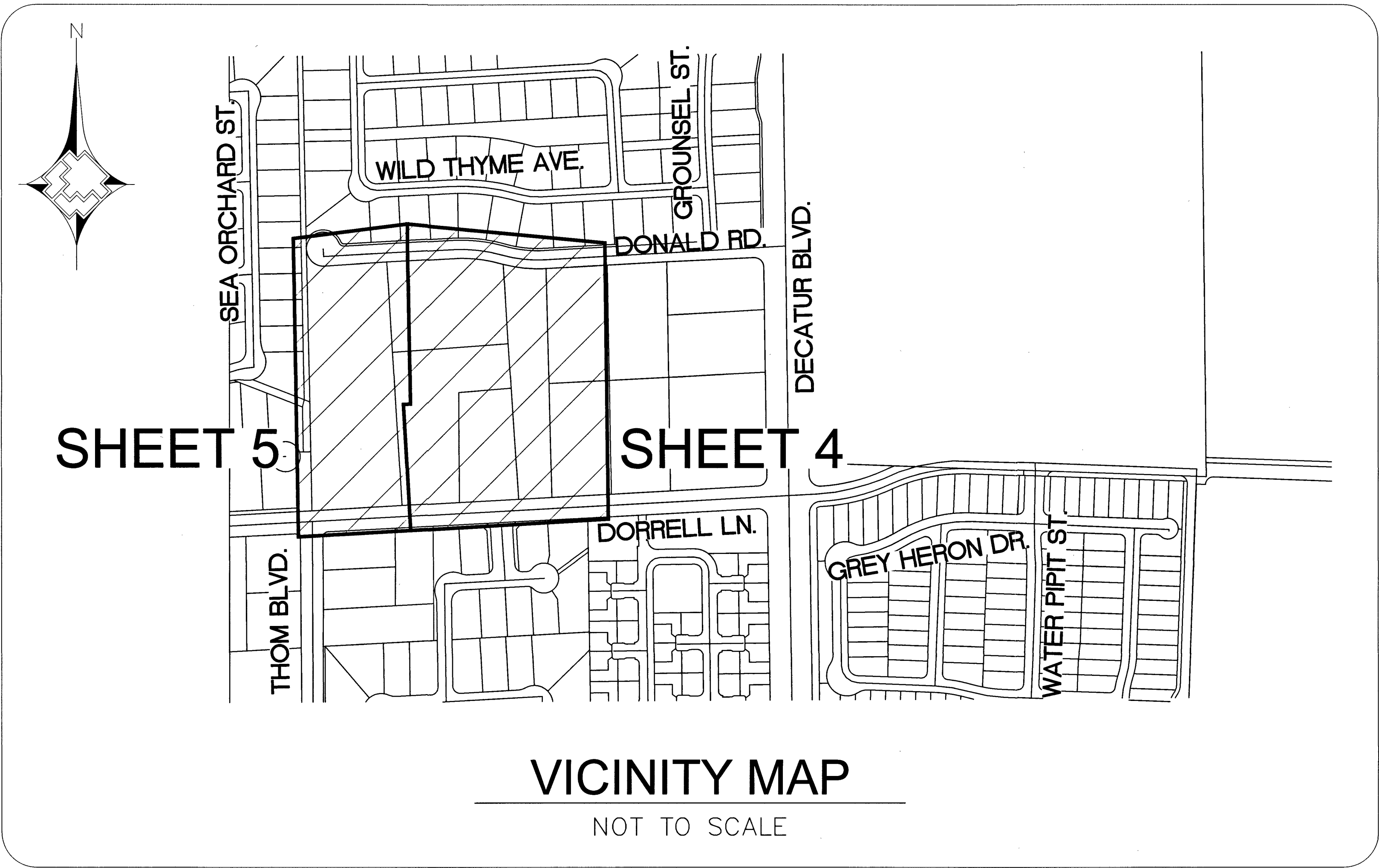
DECATUR AND DONALD CITY OF LAS VEGAS, NV WR #3483749

City of
Las Vegas

Total footage located in Public ROW 68'

APPROVED FOR CONSTRUCTION
THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV
EASEMENTS ONLY. OBTAINING PERMISSION OR
EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY
IS THE RESPONSIBILITY OF THE UTILITY.

SEE COVER OF CIVIL PLAN
Approval _____ Date _____



LEGEND

	EXISTING GAS LINE
	GAS LINE TO BE ABANDONED
	EXISTING GAS SERVICE
	PROPOSED MAIN GAS LINE (NEW)
	PROPOSED SERVICE LATERAL (NEW)
	PROPOSED SERVICE LINE (NEW)
	RIGHT OF WAY LINE
	STREET CENTERLINE
	PROPERTY LINE
	BACK OF CURB
	MATCHLINE
	PAVEMENT CUT AND REPAIR
	EXISTING ANODELESS RISER
	EXISTING ANODE RISER
	EXISTING GAS LIGHT
	EXISTING GAS VALVE
STL ①	PROPOSED MAIN CALL OUT
PE ①	ABANDONED FACILITIES CALL OUT
①	GAS DIMENSIONS
①	EXCESS FLOW VALVE

SHEET INDEX

- COVER SHEET
- ABBREVIATIONS & NOTES
- MATERIALS & SIGNATURES
- DESIGN PLAN
- DESIGN PLAN
- TYPICAL SWPPP BMP DETAILS

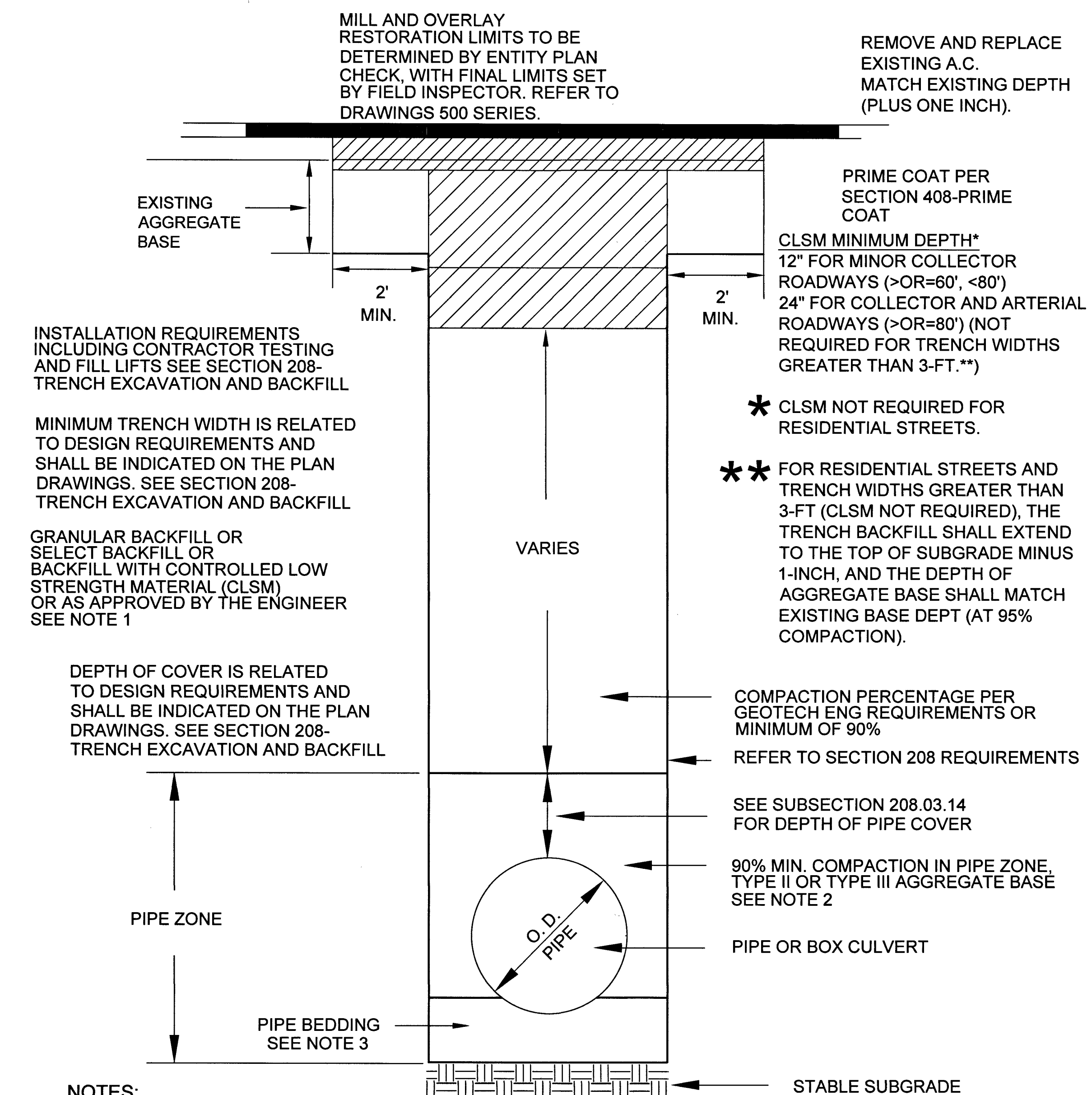


CUSTOMERS 57

1. 2. 3. 4. NO. DESCRIPTION BY DATE APPVD.				AS-BUILT DRAWING-PRESSURE TEST DATA TEST MEDIUM TEST METHOD PIPE DIA. ☐ AIR ☐ GAUGE PIPE LENGTH ☐ NITROGEN ☐ CHART PIPE TYPE ☐ WATER ☐ GAUGE/ MIN. DURATION SOAP PRESS REC SN# TEST PRES. (PSIG): (MAX) (MIN) TIME: (START) (STOP) DATE: (START) (STOP) PERFORMED BY: GAS VERIFIED BY: SEE SHEET 3				INDIVIDUAL PERFORMING VISUAL INSPECTION VISUAL INSPECTION CERTIFICATION I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED NAME DATE SEE SHEET 3				CONSTRUCTION INSPECTOR FOREMAN REVIEWED BY SEE SHEET 3				ISOLATION AREA ISO_21_DIST_120		W.R. NO. 3483749		ENGINEER/TECH: RYAN STEMMERIK ACCOUNT REP: MAXWELL HUGHES PROJECT CONTACT: DAVE WAGNER SHEET NO: 1 OF 6 DWN. BY: SEI SCALE: NTS CHKD. BY: DATE: 10/17/2017 APPVD. BY: TITLE		PHONE: 702-365-2311 PHONE: 702-365-2022 PHONE: 702-258-4447	
REVISIONS				PROPERTY UNITS TAX CODES UNIT NO. UNIT TYPE INSTL. RETIRED INSTL. RETIRED PROPOSED COMPLETED				PERMIT INFORMATION CITY OF LAS VEGAS TAX CODE 02-0200				LOCATION SEC 24 T19S R60E M.D.M.		ATLAS #/TITLE # x609y560 x609y558		DECATUR AND DONALD COVER SHEET 117-00646 107Y5067-1							



DOC_3483749



- NOTES:
1. NO STONES OR LUMPS GREATER THAN 3" PERMITTED IN TRENCH 2' OR LESS IN WIDTH.
 2. TRENCH WIDTH, BEDDING, SUBGRADE AND PIPE ZONE REQUIREMENTS FOR UTILITY INSTALLATIONS SHALL CONFORM TO THE RESPECTIVE ENTITY REQUIREMENTS.
 3. CRUSHED ROCK MAY BE USED FOR PIPE BEDDING ONLY IF MATERIAL USE HAS BEEN SPECIFICALLY APPROVED BY THE GOVERNING AGENCY. SEE STANDARD DRAWING NO. 505 FOR PIPE BEDDING METHODS.
 4. LAS VEGAS VALLEY WATER DISTRICT REQUIRES PIPE BEDDING AND BACKFILL WITHIN THE PIPE ZONE TO BE OF THE SAME MATERIAL.

RTC STD DWG 503



ABBREVIATIONS			
AB	ABANDONED	OC	ON CENTER
AC	ASPHALTIC CONCRETE	OD	OUTSIDE DIAMETER
ACP	ASBESTOS CEMENT PIPE	OH	OVERHEAD
AIM	AREA ISOLATION MODULE	OHP	OVERHEAD POWER
BLVD	BOULEVARD	P	POWER
BM	BENCHMARK	PAOP	POTENTIAL ALLOWABLE OPERATING PRESSURE
BMI	BLACK MOUNTAIN INDUSTRIAL	PCC	PORTLAND CEMENT CONCRETE
BO	BLOW OFF	PE	POLYETHYLENE PIPE
BTU	BRITISH THERMAL UNIT	PH	POT HOLE
BWC	BASIC WATER COMPANY	PHMSA	PIPELINE & HAZARDOUS MATERIALS SAFETY ADMINISTRATION
COBC	CITY OF BOULDER CITY	PL	PROPERTY LINE
CC	CLARK COUNTY	PIC	POTENTIAL IMPACT CIRCLE
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	PLS	PRESSURE LIMITING STATION
CCRCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT	PP	POWER POLE
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	PQF	PREQUALIFIED FITTING
CIP	CAST IRON PIPE	PVC	POLYVINYL CHLORIDE
CL	CENTERLINE		
CLV	CITY OF LAS VEGAS	RAM	RISK ASSESSMENT MODEL
CNLV	CITY OF NORTH LAS VEGAS	RC	REINFORCED CONCRETE
COH	CITY OF HENDERSON	RCP	REINFORCED CONCRETE PIPE
CP	CATHODIC PROTECTION		
DET	DETAIL	SD	STORM DRAIN
DI	DUCTILE IRON	SDMH	STORM DRAIN MANHOLE
DIA	DIAMETER	SDR	STANDARD DIMENSION RATIO
DIMP	DISTRIBUTION INTEGRITY MANAGEMENT PROGRAM	SF	SQUARE FOOT
DNR	DOES NOT REGISTER	SHT	SHEET
DWG	DRAWING	SHP	STEEL HIGH PRESSURE PIPE
EFV	EXCESS FLOW VALVE	SMYS	SPECIFIED MAXIMUM YIELD STRENGTH
EG	EXISTING GROUND	SNWA	SOUTHERN NEVADA WATER AUTHORITY
EHDD	EFFECTIVE HEATING DEGREE DAY	SS	SANITARY SEWER
ELEC	ELECTRICAL	SST	STAINLESS STEEL
ELEV	ELEVATION	ST	STREET
EMRS	ELECTRONIC MAPPING RECORDS SYSTEM	STA	STATION
EPR	ELECTRONIC PRESSURE RECORDERS	STD	STRENGTH TEST DRAWING
ESMT	EASEMENT	STL	STEEL
EX	EXISTING	SWG	SOUTHWEST GAS
FERC	FEDERAL ENERGY REGULATORY COMMISSION	TEL	TELEPHONE
FOS	FACILITY OUT OF SERVICE	TB	THRUST BLOCK
FH	FIRE HYDRANT	TOP	TOP OF PIPE
GIR	GAS INFRASTRUCTURE REPLACEMENT	TP	TEST POINT
GPR	GAS PRESSURE REGULATOR	TRIMP	TRANSMISSION INTEGRITY MANAGEMENT PROGRAM
HCA	HIGH CONSEQUENCE AREA		
HDD	HEATING DEGREE DAY	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS
HDPE	HIGH DENSITY POLYETHYLENE PIPE	UOC	UNUSUAL OPERATING CONDITIONS
HP	HIGH PRESSURE	UOP	UNIT OF PROPERTY
HERS	HOME ENERGY RATING SYSTEM	UPRR	UNION PACIFIC RAILROAD
HOP	HISTORIC OPERATING PROCEDURE	USD	UNIFORM STANDARD DRAWING
HVTT	HIGH VOLUME TAPPING TEE		
ID	INSIDE DIAMETER	VCP	VITRIFIED CLAY PIPE
IN	INCH(ES)	VERT	VERTICAL
IPS	IRON PIPE SIZE	VG	VALLEY GUTTER
IS	IDENTIFIED SITE	VSP	VINTAGE STEEL PIPE
JT	JOINT TRENCH		
KRG	KERN RIVER GAS COMPANY	W	WATER
LDCPE	LARGE DIAMETER COILED POLYETHYLENE PIPE	WMS	WORK MANAGEMENT SYSTEM
LVVWD	LAS VEGAS VALLEY WATER DISTRICT	WR	WORK REQUEST
MAOP	MAXIMUM ALLOWABLE OPERATING PRESSURE	WT	WALL THICKNESS
MCFH	THOUSAND CUBIC FEET PER HOUR	WV	WATER VALVE
MH	MANHOLE		
MOP	MAXIMUM OPERATING PRESSURE	YD	YARD(S)
MSA	METER SET ASSEMBLY		
MVP	MAPPING VERIFICATION PROCEDURE		
NAP	NOT A PART		
NDOT	NEVADA DEPARTMENT OF TRANSPORTATION		
NTSB	NATIONAL TRANSPORTATION SAFETY BOARD		
NTS	NOT TO SCALE		

- CONSTRUCTION NOTES
1. SUGGESTED GAS LOCATIONS ARE TO CLEAR SUBSTRUCTURES LOCATED IN FIELD.
 2. ALL PIPELINE CONSTRUCTION SHALL CONFORM TO APPLICABLE JURISDICTION SPECIFICATIONS.
 3. DO NOT SCALE THIS DRAWING.
 4. SEE AC'S FOR SERVICE REPLACEMENT.
 5. CHANGE IN PROPOSED MAIN LOCATION MUST BE AUTHORIZED BY SWG ENGINEER PRIOR TO INSTALLATION.
 6. GAS MAINS SHALL BE PURGED PER OPERATIONS MANUAL.
 7. ABANDONED SERVICE NO ACTION REQUIRED.
 8. REPLACE ALL ACTIVE SERVICES INCLUDING AA, PVC, M7000 PE, M8000 PE, EXCEPT WHERE EXISTING M8100 PE SERVICES ARE VERIFIED, INSPECTED, AND APPROVED FOR TIE-OVER BY SWG INSPECTOR.
 9. EXISTING SERVICES, VERIFICATION, AND INSPECTION REQUIRED FROM MAIN TO RISER. TIE INTO NEW MAIN IF APPROVED BY SWG INSPECTOR. REPLACE ALL AA, PVC, M7000 PE, AND M8000 PE SERVICES. M8100 PE SERVICES TO BE VERIFIED, INSPECTED AND APPROVED BY SWG INSPECTOR.
 10. EXISTING SERVICE, UNKNOWN TYPE, SIZE, AND LOCATION TO BE VERIFIED.
 11. REPLACEMENT SERVICES TO BE SINGLE OR BRANCHED. NO CROSS-LOT REPLACEMENT SERVICES PERMITTED.
 12. REPLACE ALL ANODE RISERS WITH ANODELESS RISERS.
 13. ALL EXISTING UTILITY LOCATION TO BE VERIFIED PRIOR TO START OF CONSTRUCTION.
 14. CONTACT ENGINEERING FOR BYPASS INFORMATION.
 15. ALL MAIN TIE-INS REQUIRING TEES ARE TO BE FULL-FLOW TEES UNLESS OTHERWISE STATED.
 16. ALL SHORING REQUIREMENTS SHALL CONFORM TO APPLICABLE PORTIONS OF THE OPERATIONS MANUAL.
 17. REQUEST FOR SURVEYING AND/OR STAKING WILL BE SUBMITTED TO ENGINEERING 72 HOURS IN ADVANCE, MINIMUM.
 18. TRENCHING AND PAVEMENT REPLACEMENT SHALL CONFORM WITH RTC STANDARD 503, AND UNIFORM STANDARD SPEC SECTION 208.

RTC NOTES:

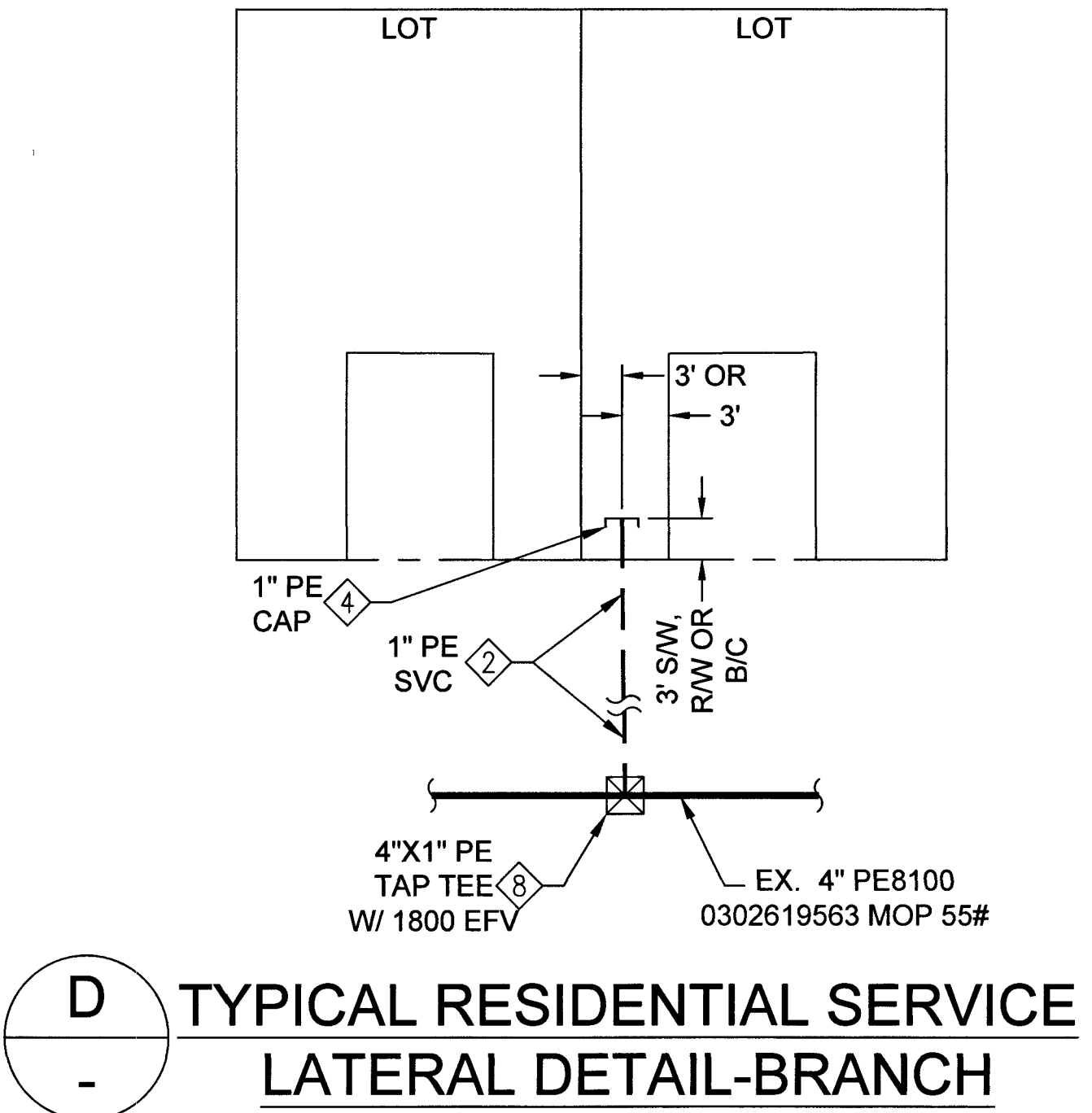
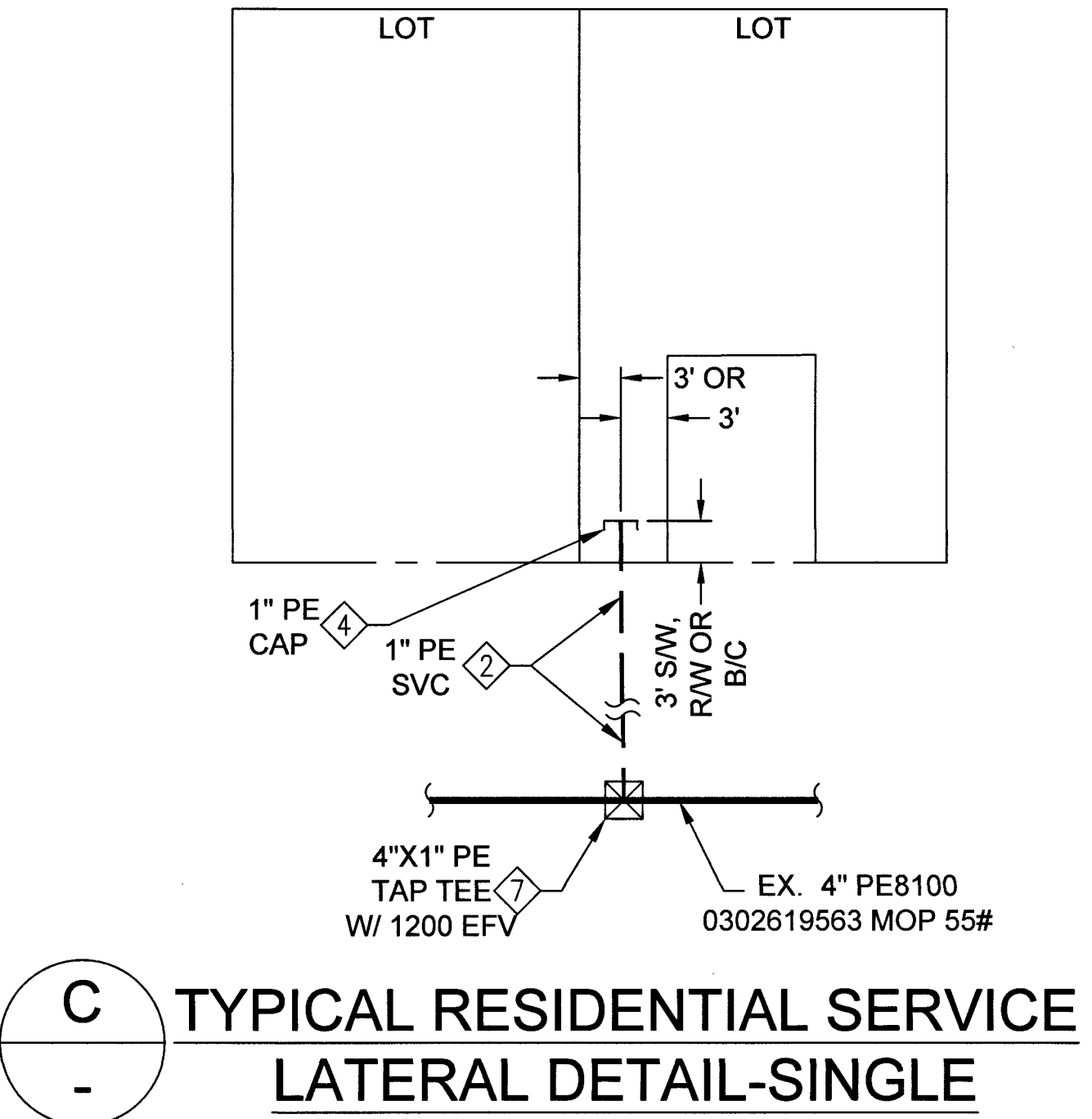
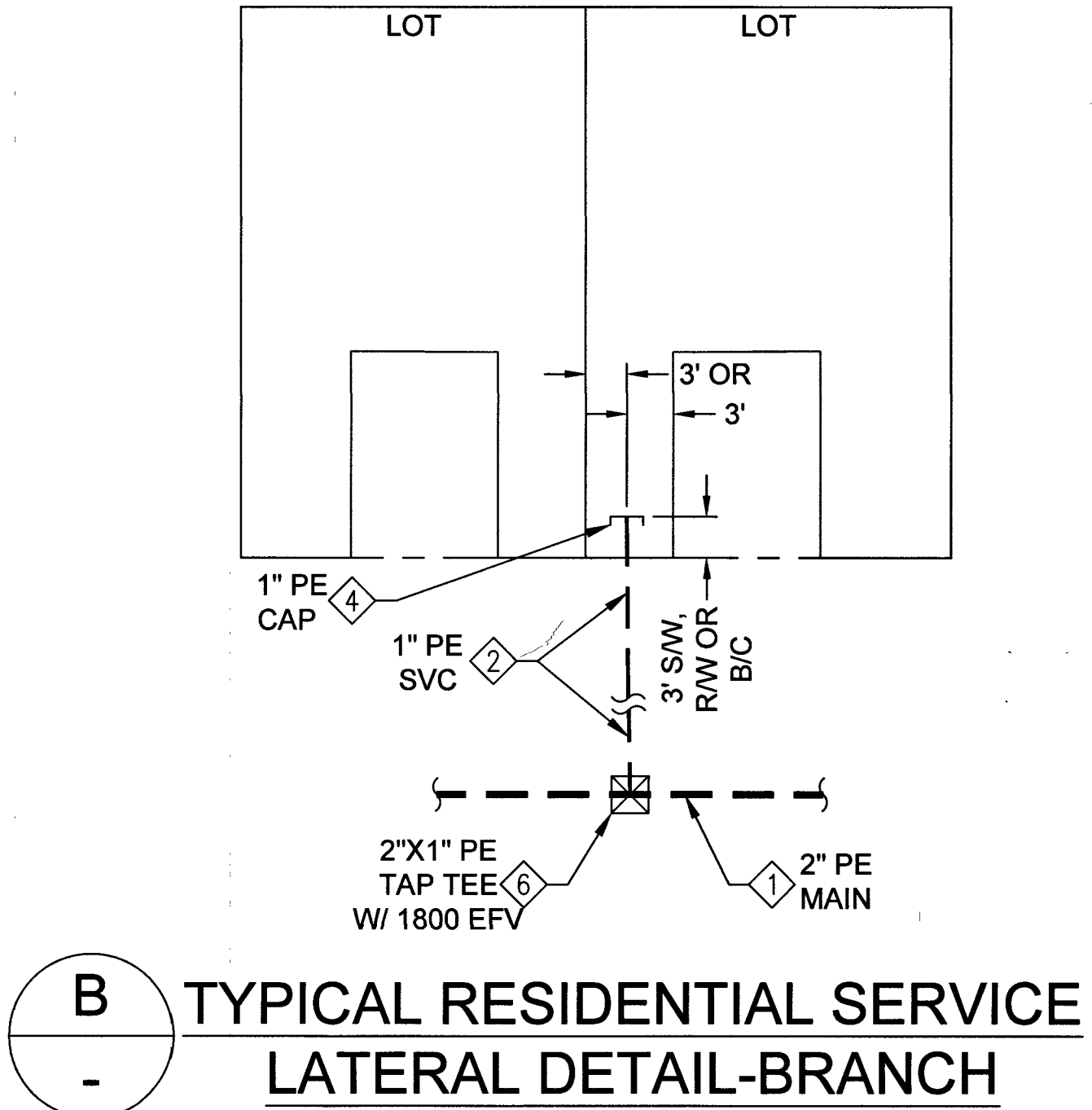
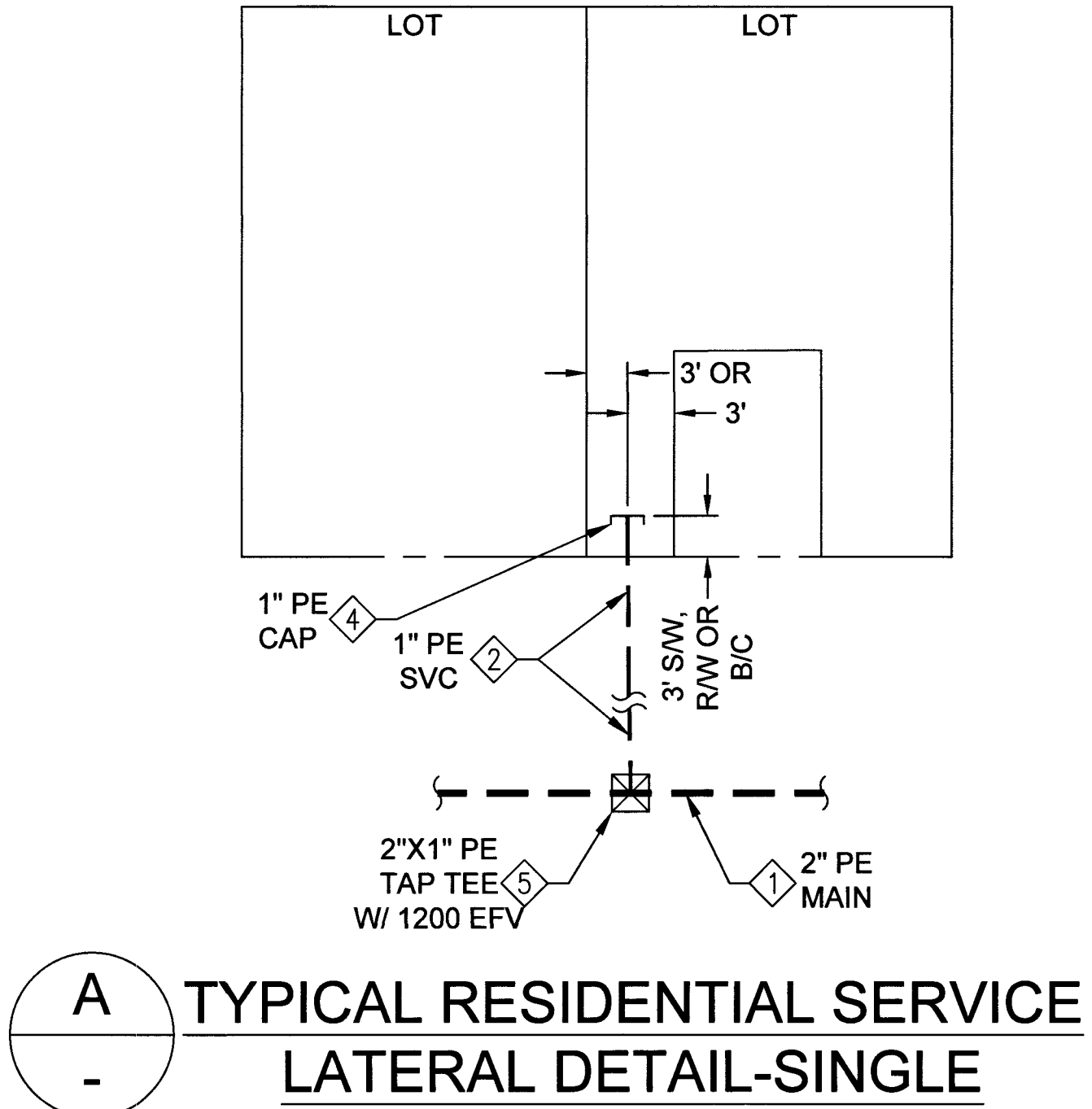
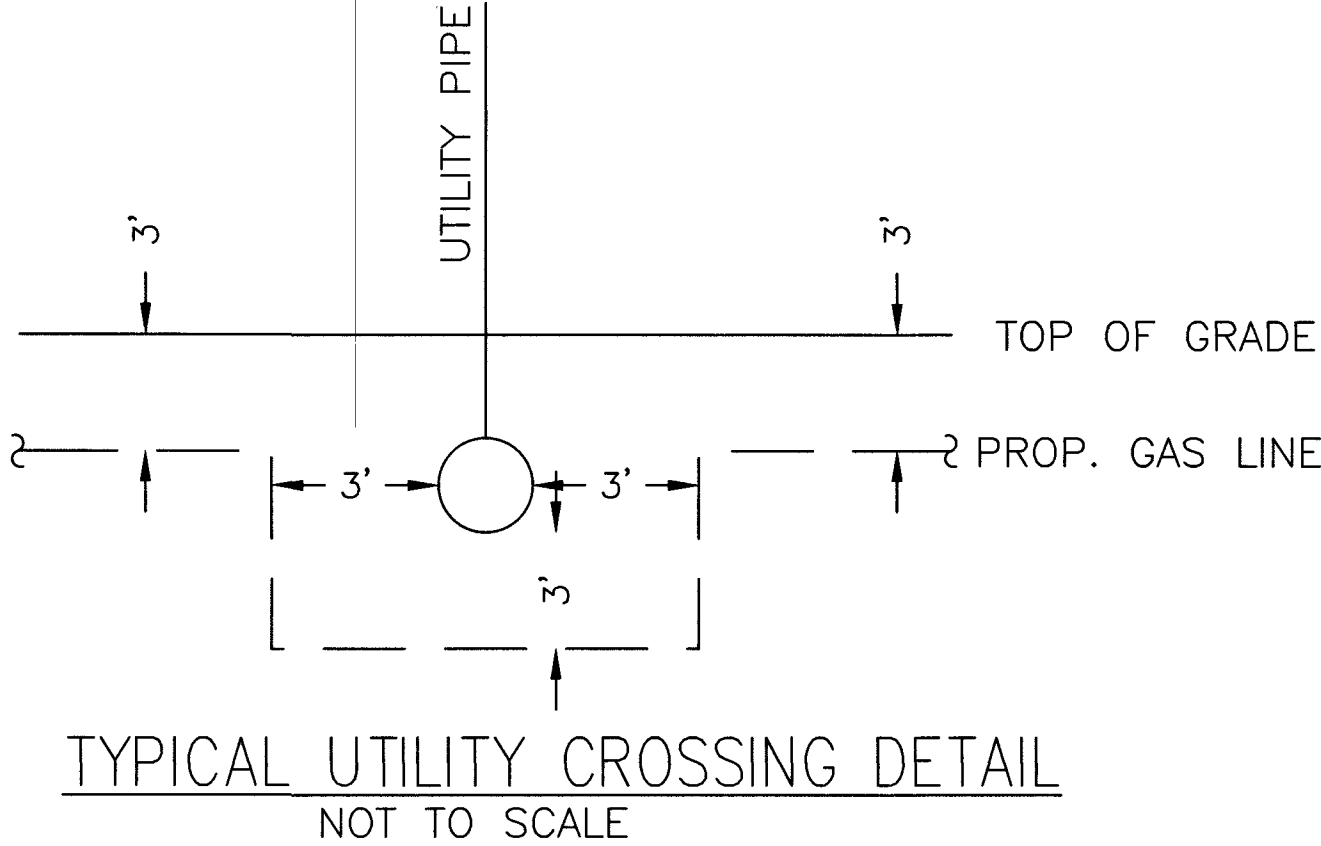
PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

1. 2. 3. 4.				AS-BUILT DRAWING-PRESSURE TEST DATA				INDIVIDUAL PERFORMING VISUAL INSPECTION				CONSTRUCTION				ISOLATION AREA		W.R. NO.		ENGINEER/TECH: RYAN STEMMERIK				PHONE: 702-365-2311							
				PIPE DIA. _____				TEST MEDIUM _____				VISUAL INSPECTION CERTIFICATION				INSPECTOR _____				ISO_21_DIST_120		3483749		ACCOUNT REP: MAXWELL HUGHES				PHONE: 702-365-2022			
				PIPE LENGTH _____				TEST METHOD _____				I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED				FOREMAN _____								PROJECT CONTACT: DAVE WAGNER				PHONE: 702-258-4447			
				PIPE TYPE _____				PIPE TYPE _____				NAME _____				REVIEWED BY _____								SHEET NO: 2 OF 6				SCALE: NTS		DATE: 10/17/2017	
NO. DESCRIPTION BY DATE APPVD.				MIN DURATION _____				PIPE TYPE _____				DATE _____												DWN. BY: SEI				CHKD. BY: _____		APPVD. BY: _____	
REVISIONS				TEST PRES. (PSIG) (MAX) _____ (MIN) _____				TIME (H) _____ (STOP) _____				AS-BUILTS ACCEPTED BY _____				DATE _____				LOCATION		ATLAS #/TILE #		TITLE							
				TIME (H) _____ (STOP) _____				DATE (START) _____ (STOP) _____				POSTED BY _____				DATE _____				SEC 24		x609y560		DECATUR AND DONALD							
				PERFORMED BY: _____				DATE (START) _____ (STOP) _____				POSTING QC'D BY _____				DATE _____				T19S R60E		x609y558		ABBREVIATIONS & NOTES							
				SUG VERIFIED BY: _____																M.D.M.				L17-00646 10745067-1							
TAX CODES UNIT NO. UNIT TYPE INSTL. RETIRED INSTL. RETIRED				PROPERTY UNITS																											

SOUTHWEST GAS CORPORATION

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1	1,994'		100-5101	PROPOSED 2" PE MAIN
2	657'		101-8526	PROPOSED 1" PE SERVICE
3	3		140-3060	PROPOSED 2" PE CAP
4	31		850-8773	PROPOSED 1" PE CAP
5	3		160-8577	PROPOSED 2"X1" PE TAPPING TEE W/ 1200 EFV
6	22		160-8394	PROPOSED 2"X1" PE TAPPING TEE W/ 1800 EFV
7	2		160-8335	PROPOSED 4"X1" PE TAPPING TEE W/ 1200 EFV
8	4		160-8395	PROPOSED 4"X1" PE TAPPING TEE W/ 1800 EFV
9	1		160-8174	PROPOSED 4"X2" PE HVTT
10	2		140-3074	PROPOSED 2" PE TEE
11	1		140-3067	PROPOSED 2" PE ELBOW
12	38'		100-5201	PROPOSED 4" PE MAIN
13	1		140-3062	PROPOSED 4" PE CAP
14	1		140-3439	PROPOSED 4" PE COUPLING



PURGE PLAN WAS COMPLETED IN ACCORDANCE
WITH THE OPERATIONS MANUAL GUIDELINES BY:

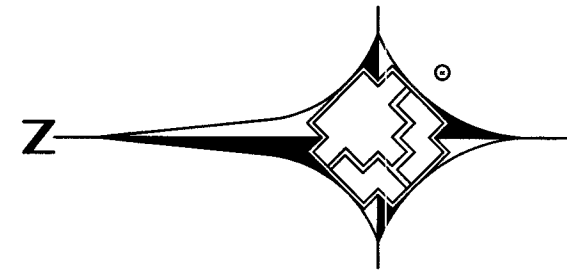
PRINT: _____ DATE: _____

SIGNATURE: _____

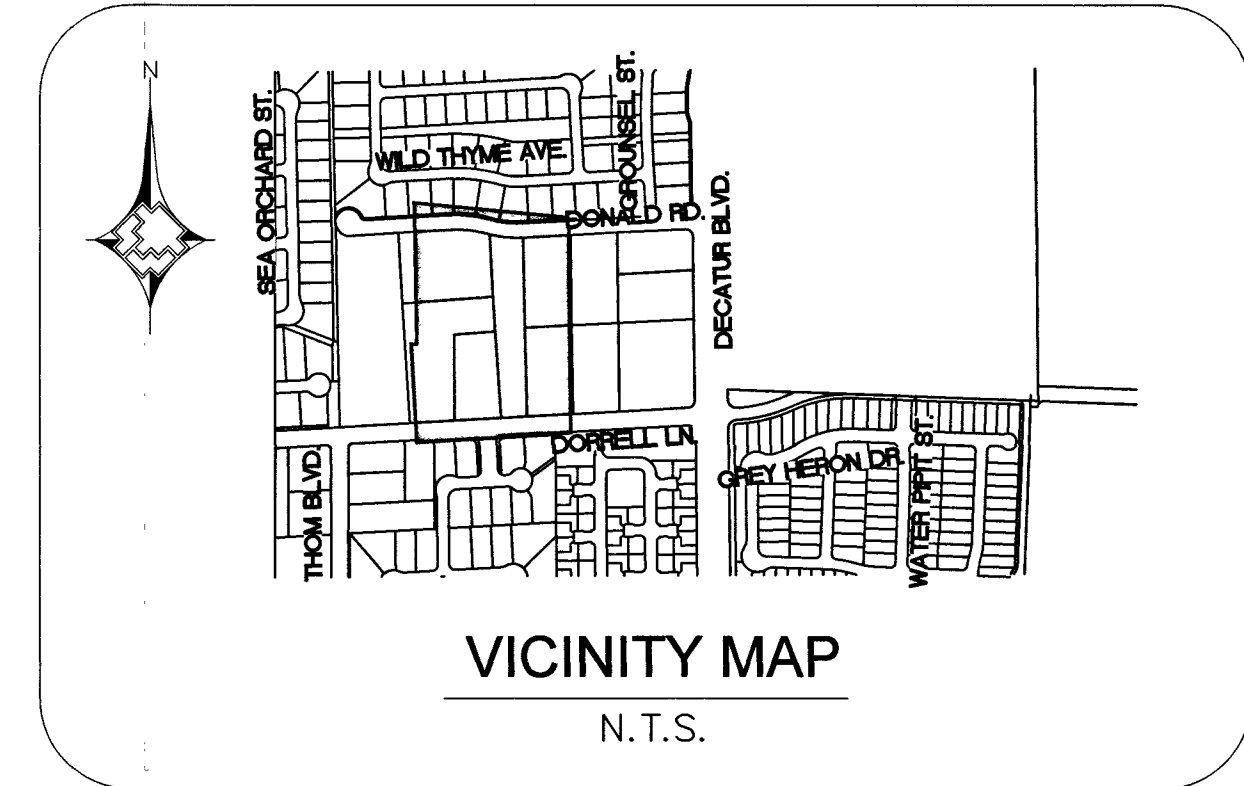
VISUAL INSPECTION (OQ/PJQ)	
_____	_____
_____	_____
_____	_____
_____	_____
SIGNATURE _____	
DATE _____	

SYSTEM	D_N_VALLEY_E
DR. NO.	21DS10006211
SEGMENT M.A.O.P.	N/A
SYSTEM M.A.O.P.	60_PSIG
SYSTEM M.O.P.	55_PSIG

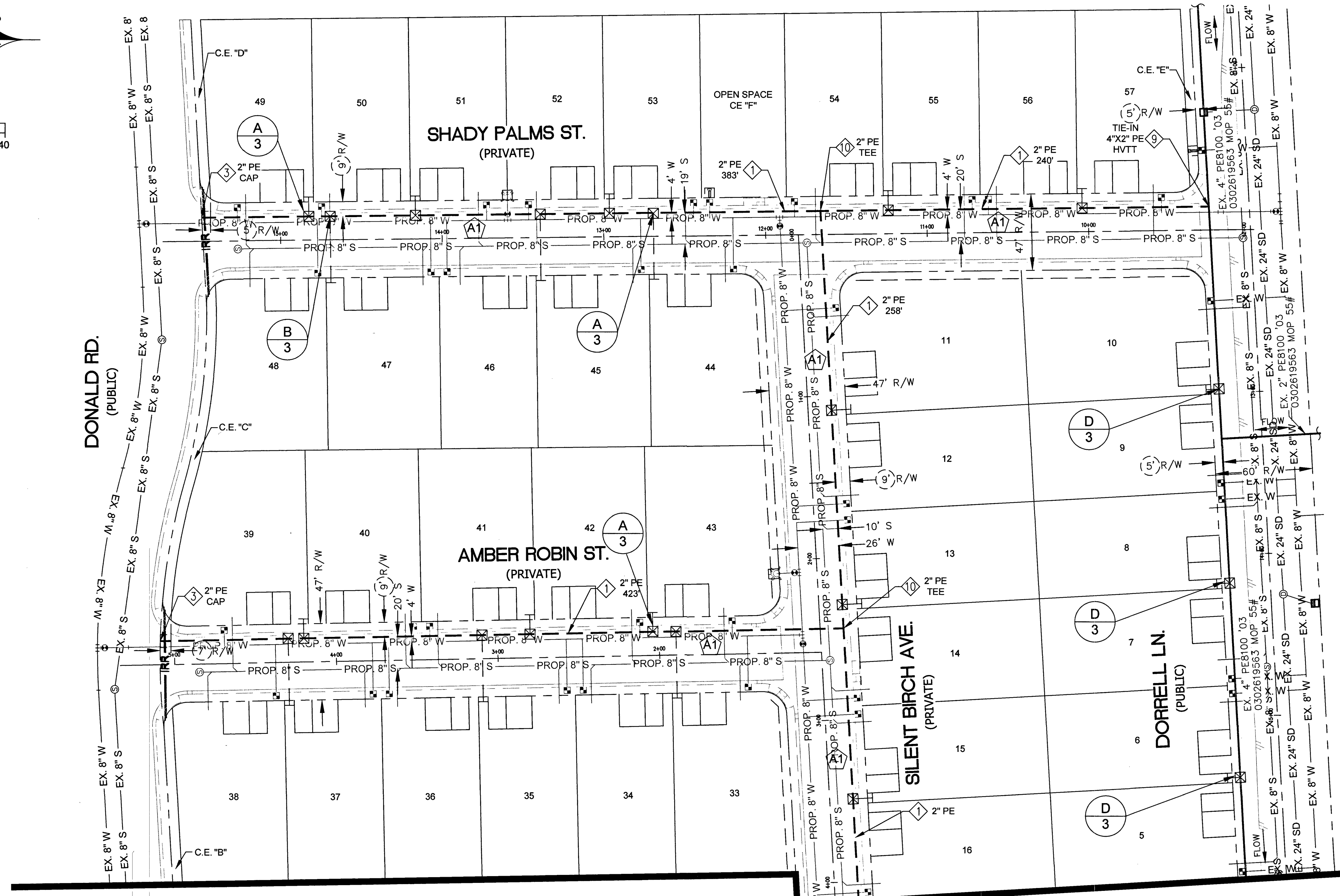
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0 1" = 40' 40

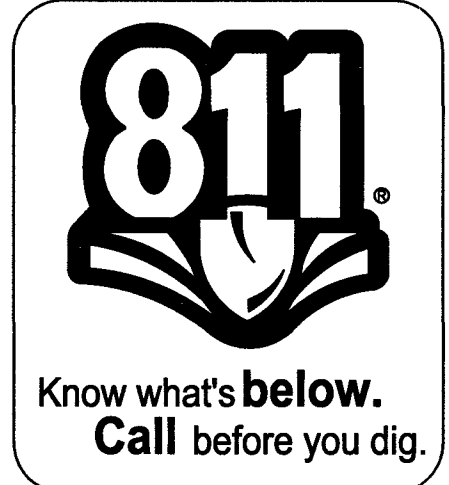


VICINITY MAP
N.T.S.



MATCHLINE - SEE SHEET 5

MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES		
ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	PROPOSED 2" PE MAIN
2	101-8526	PROPOSED 1" PE SERVICE
3	140-3060	PROPOSED 2" PE CAP
4	850-8773	PROPOSED 1" PE CAP
5	160-8577	PROPOSED 2"x1" PE TAPPING TEE W/ 1200 EFV
6	160-8394	PROPOSED 2"x1" PE TAPPING TEE W/ 1800 EFV
7	160-8335	PROPOSED 4"x1" PE TAPPING TEE W/ 1200 EFV
8	160-8395	PROPOSED 4"x1" PE TAPPING TEE W/ 1800 EFV
9	160-8174	PROPOSED 4"x2" PE HVTT
10	140-3074	PROPOSED 2" PE TEE
11	140-3067	PROPOSED 2" PE ELBOW
12	100-5201	PROPOSED 4" PE MAIN
13	140-3062	PROPOSED 4" PE CAP
14	140-3439	PROPOSED 4" PE COUPLING

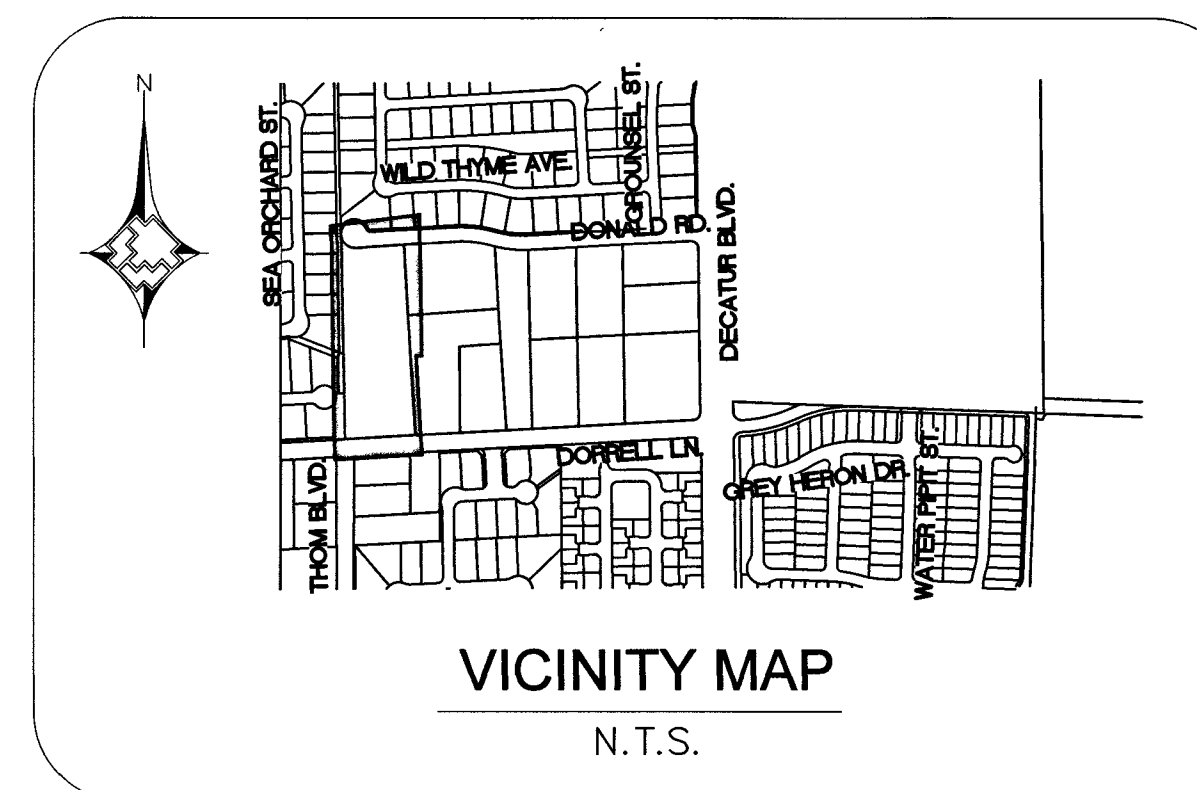
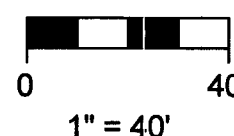


RTC NOTES:
PAVEMENT REPAIR SHALL CONFORM TO RTC:
A1 503

1. 2. 3. 4. <table><thead><tr><th>NO.</th><th>DESCRIPTION</th><th>BY</th><th>DATE</th><th>APPVD.</th></tr></thead><tbody><tr><td colspan="5">REVISIONS</td></tr></tbody></table>	NO.	DESCRIPTION	BY	DATE	APPVD.	REVISIONS					<table><thead><tr><th>TAX CODES</th><th>UNIT NO.</th><th>UNIT TYPE</th><th>INSTL. PROPOSED</th><th>RETIRED</th><th>INSTL. COMPLETED</th><th>RETIRED</th></tr></thead><tbody><tr><td colspan="7">PROPERTY UNITS</td></tr></tbody></table>	TAX CODES	UNIT NO.	UNIT TYPE	INSTL. PROPOSED	RETIRED	INSTL. COMPLETED	RETIRED	PROPERTY UNITS							<table><thead><tr><th colspan="2">AS-BUILT DRAWING-PRESSURE TEST DATA</th></tr><tr><th>PIPE DIA.</th><th>TEST MEDIUM</th><th>TEST METHOD</th><th></th></tr></thead><tbody><tr><td>PIPE LENGTH</td><td>☐ AIR</td><td>☐ GAUGE</td><td></td></tr><tr><td>PIPE TYPE</td><td>☐ NITROGEN</td><td>☐ CHART</td><td></td></tr><tr><td>MIN DURATION</td><td>☐ WATER</td><td>☐ GAUGE/ SOAP</td><td>☐ PRESS REC SN#</td></tr><tr><td>TEST PRES. (PSIG) (MAX)</td><td></td><td>(MIN)</td><td></td></tr><tr><td>TIME (HOURS)</td><td></td><td>(STOP)</td><td></td></tr><tr><td>DATE (START)</td><td></td><td>(STOP)</td><td></td></tr><tr><td>PERFORMED BY:</td><td></td><td></td><td></td></tr><tr><td>DATE VERIFIED BY:</td><td></td><td></td><td></td></tr></tbody></table>	AS-BUILT DRAWING-PRESSURE TEST DATA		PIPE DIA.	TEST MEDIUM	TEST METHOD		PIPE LENGTH	☐ AIR	☐ GAUGE		PIPE TYPE	☐ NITROGEN	☐ CHART		MIN DURATION	☐ WATER	☐ GAUGE/ SOAP	☐ PRESS REC SN#	TEST PRES. (PSIG) (MAX)		(MIN)		TIME (HOURS)		(STOP)		DATE (START)		(STOP)		PERFORMED BY:				DATE VERIFIED BY:				<table><thead><tr><th colspan="2">INDIVIDUAL PERFORMING VISUAL INSPECTION</th></tr><tr><th colspan="2">VISUAL INSPECTION CERTIFICATION</th></tr></thead><tbody><tr><td colspan="2">I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED</td></tr><tr><td>NAME</td><td>DATE</td></tr><tr><td colspan="2">SEE SHEET 3</td></tr></tbody></table>	INDIVIDUAL PERFORMING VISUAL INSPECTION		VISUAL INSPECTION CERTIFICATION		I HAVE VISUALLY INSPECTED ALL HEATED FUSIONS, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT HAVE PERFORMED		NAME	DATE	SEE SHEET 3		<table><thead><tr><th colspan="2">CONSTRUCTION</th></tr><tr><td>INSPECTOR</td><td>FOREMAN</td></tr><tr><td>REVIEWED BY</td><td>DATE</td></tr><tr><td colspan="2">SEE SHEET 3</td></tr></thead><tbody><tr><td colspan="2">PERMIT INFORMATION</td></tr><tr><td colspan="2">CITY OF LAS VEGAS</td></tr><tr><td colspan="2">TAX CODE 02-0200</td></tr></tbody></table>	CONSTRUCTION		INSPECTOR	FOREMAN	REVIEWED BY	DATE	SEE SHEET 3		PERMIT INFORMATION		CITY OF LAS VEGAS		TAX CODE 02-0200		<table><thead><tr><th>ISOLATION AREA</th><th>W.R. NO.</th></tr></thead><tbody><tr><td>ISO_21_DIST_120</td><td>3460480</td></tr><tr><td>LOCATION</td><td>ATLAS #/TILE #</td></tr><tr><td>SEC 24</td><td>x609y560</td></tr><tr><td>T19S R60E</td><td>x609y558</td></tr><tr><td>M.D.M.</td><td></td></tr></tbody></table>	ISOLATION AREA	W.R. NO.	ISO_21_DIST_120	3460480	LOCATION	ATLAS #/TILE #	SEC 24	x609y560	T19S R60E	x609y558	M.D.M.		<table><thead><tr><th colspan="2">ENGINEER/TECH: RYAN STEMMERIK</th><th colspan="2">PHONE: 702-365-2311</th></tr><tr><td colspan="2">ACCOUNT REP: MAXWELL HUGHES<td colspan="2">PHONE: 702-365-2022</td></td></tr><tr><td colspan="2">PROJECT CONTACT: DAVE WAGNER<td colspan="2">PHONE: 702-258-4447</td></td></tr><tr><td>SHEET NO: 4 OF 6</td><td>SCALE: 1"=40'</td><td>DATE: 10/17/2017</td><td></td></tr><tr><td>DWN. BY: SEI</td><td>CHKD. BY:</td><td>APPVD. BY:</td><td></td></tr></thead><tbody><tr><td colspan="4">TITLE</td></tr><tr><td colspan="4">DECATUR AND DONALD</td></tr><tr><td colspan="4">DESIGN PLAN</td></tr><tr><td colspan="4">L17-00646 107Y5067-1</td></tr></tbody></table>	ENGINEER/TECH: RYAN STEMMERIK		PHONE: 702-365-2311		ACCOUNT REP: MAXWELL HUGHES <td colspan="2">PHONE: 702-365-2022</td>		PHONE: 702-365-2022		PROJECT CONTACT: DAVE WAGNER <td colspan="2">PHONE: 702-258-4447</td>		PHONE: 702-258-4447		SHEET NO: 4 OF 6	SCALE: 1"=40'	DATE: 10/17/2017		DWN. BY: SEI	CHKD. BY:	APPVD. BY:		TITLE				DECATUR AND DONALD				DESIGN PLAN				L17-00646 107Y5067-1			
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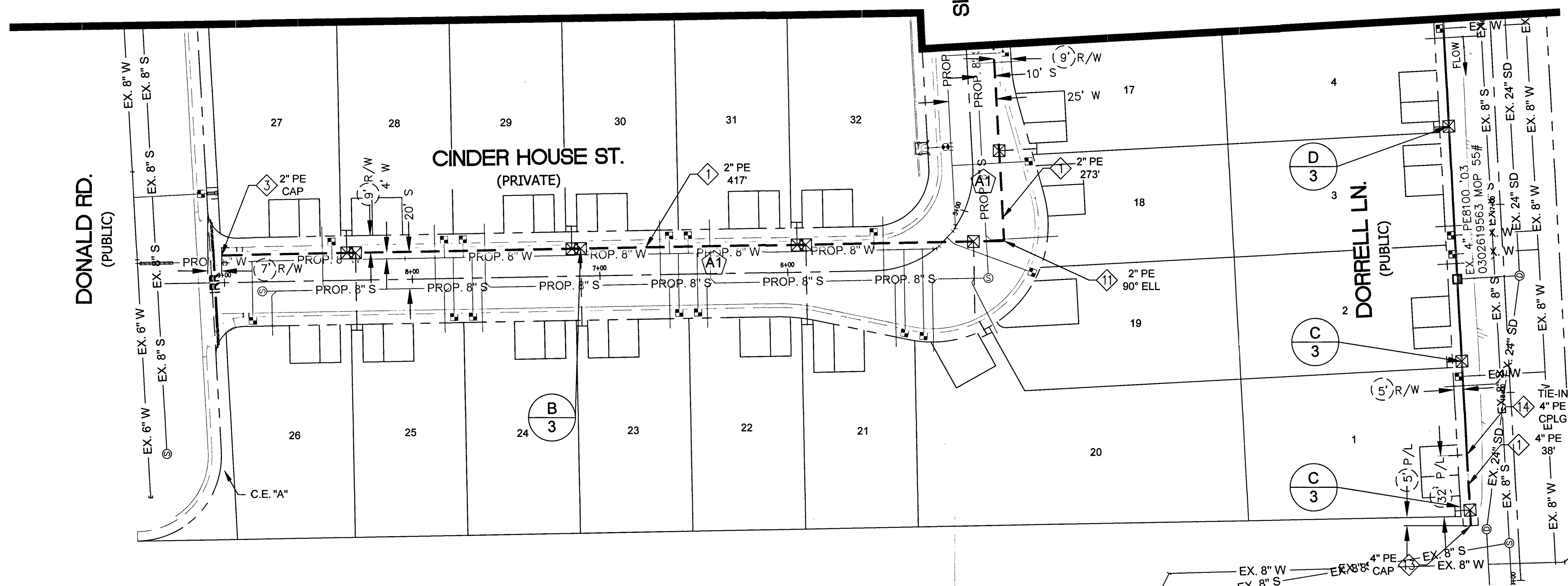


DOC 3483749



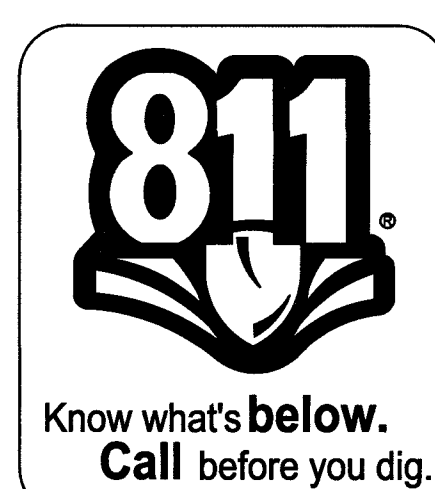
MATCHLINE - SEE SHEET 4

SILENT BIRCH AVE.
(PRIVATE)



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES

ITEM#	STOCK ID#	DESCRIPTION
1	100-5101	PROPOSED 2" PE MAIN
2	101-8526	PROPOSED 1" PE SERVICE
3	140-3060	PROPOSED 2" PE CAP
4	850-8773	PROPOSED 1" PE CAP
5	160-8577	PROPOSED 2"X1" PE TAPPING TEE W/ 1200 EFV
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10	140-3074	PROPOSED 2" PE TEE
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RTC NOTES:

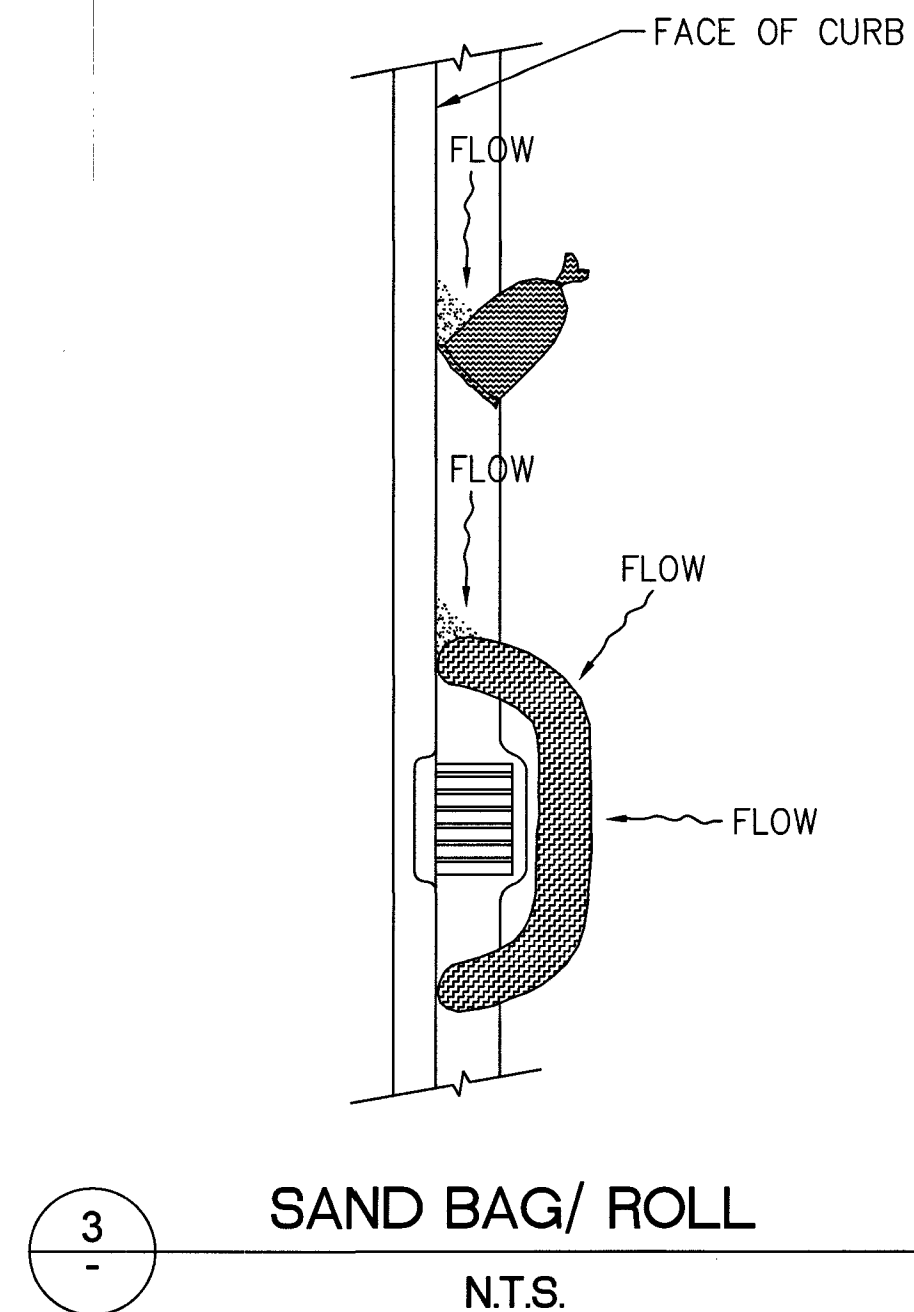
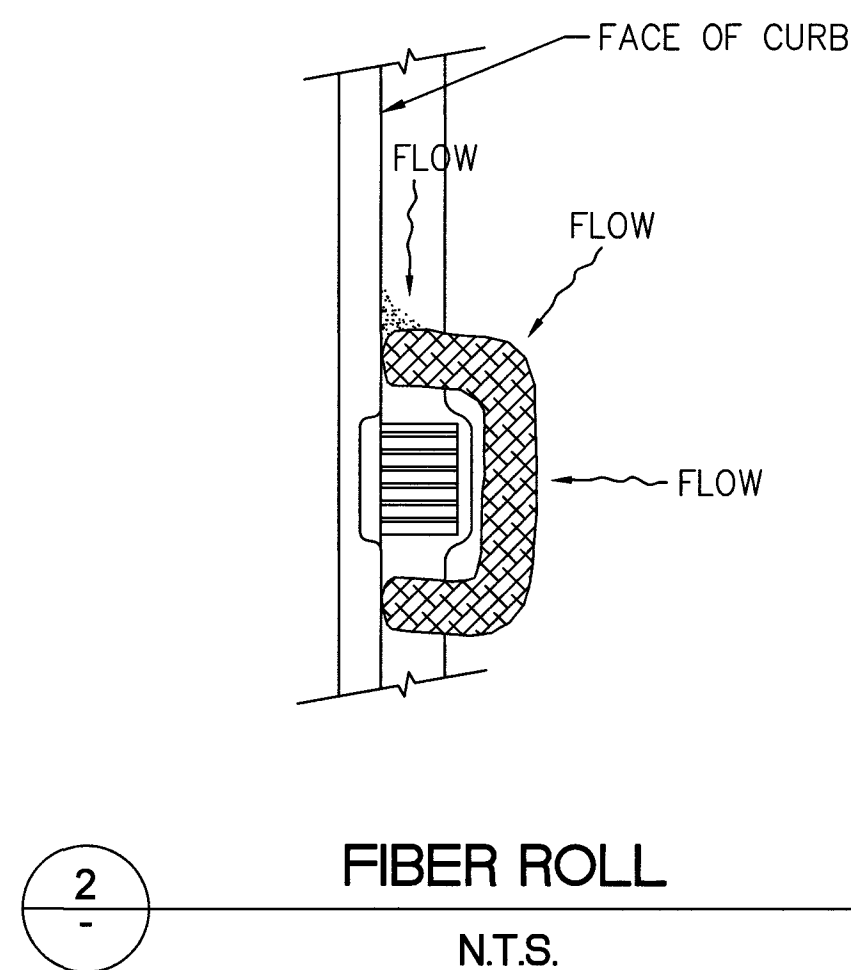
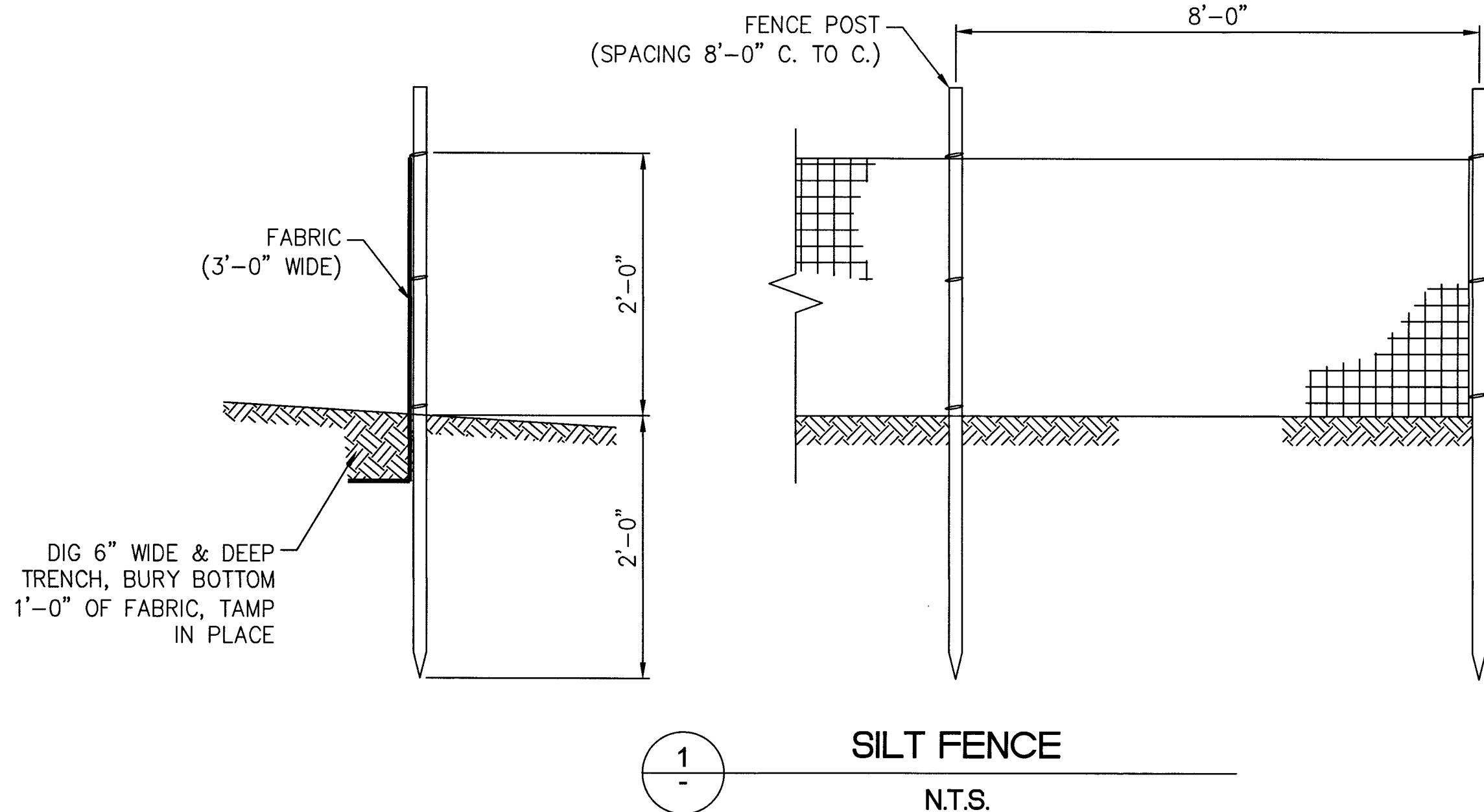
PAVEMENT REPAIR SHALL CONFORM TO RTC:

A1 503

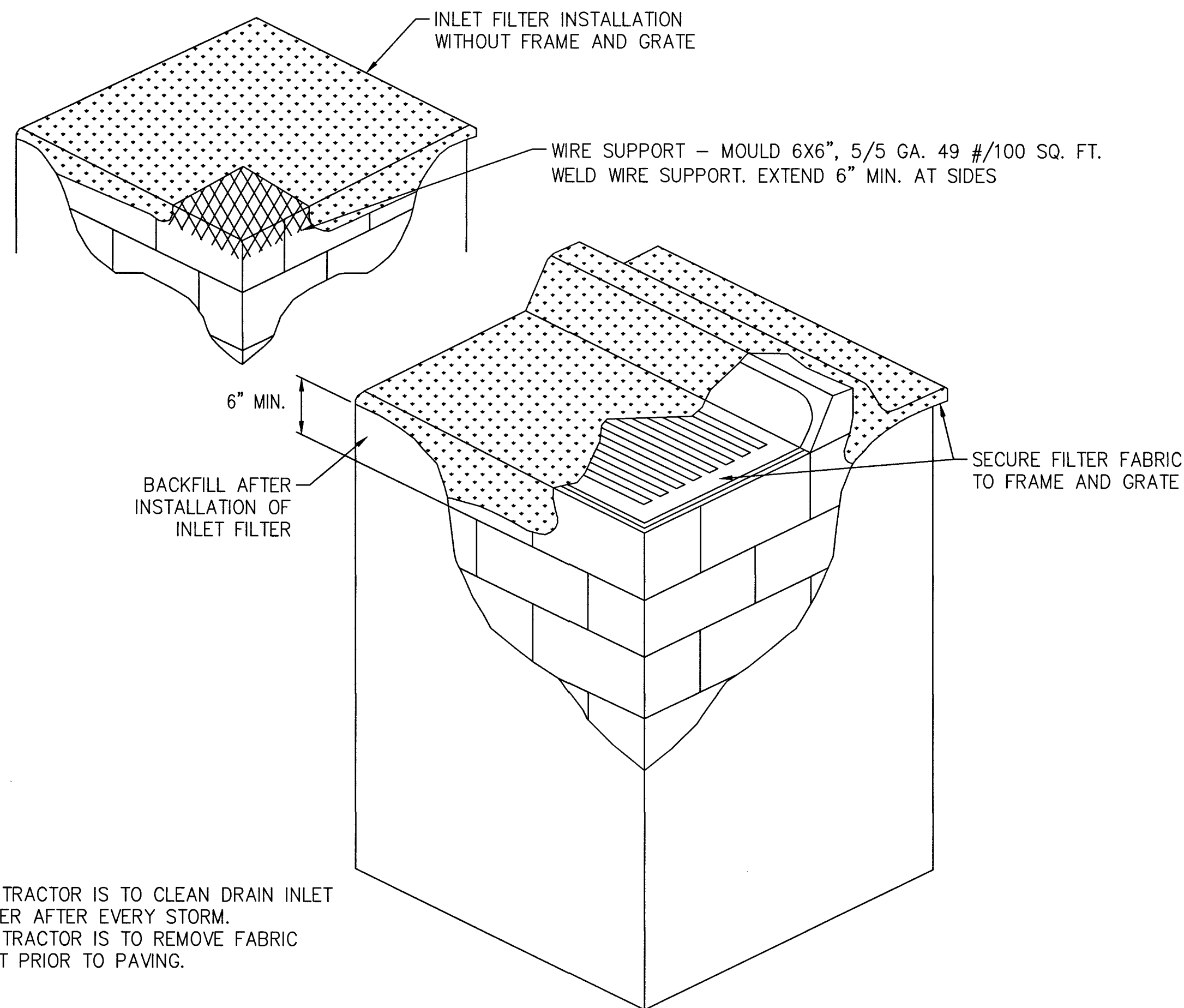
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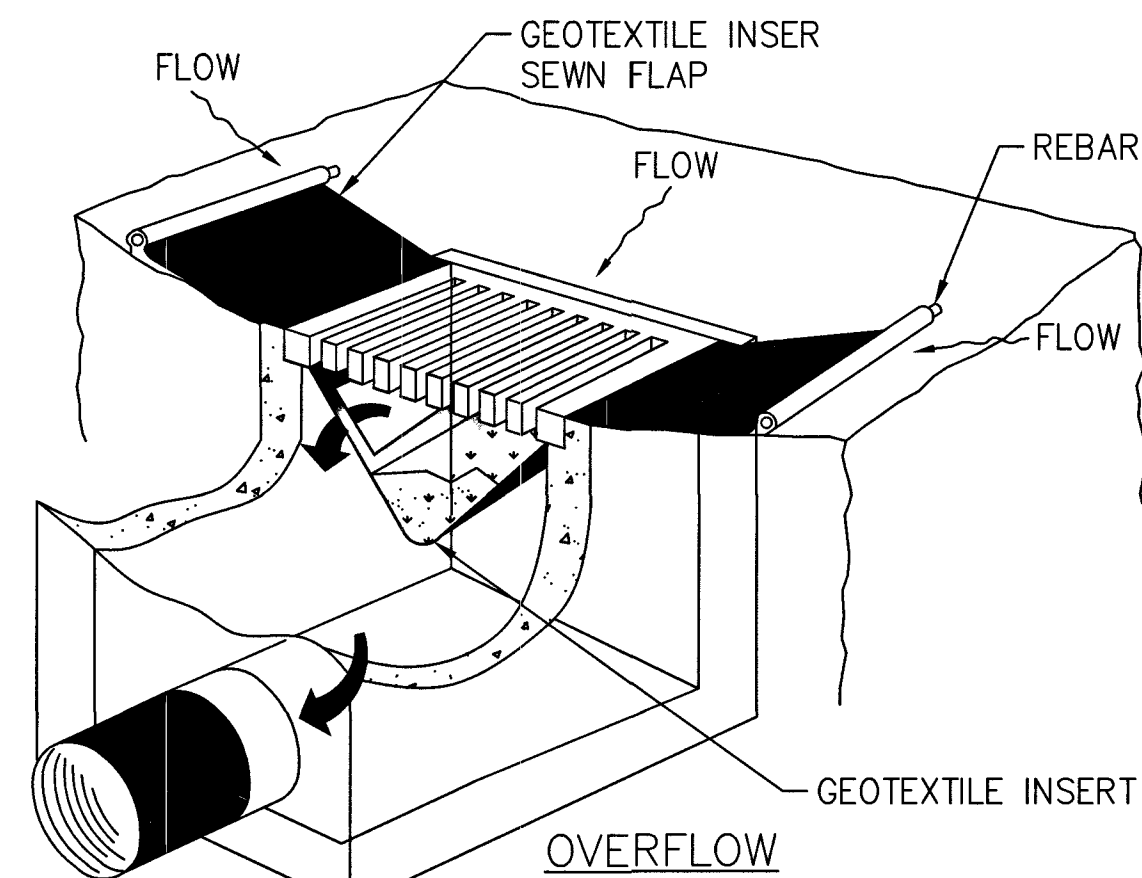
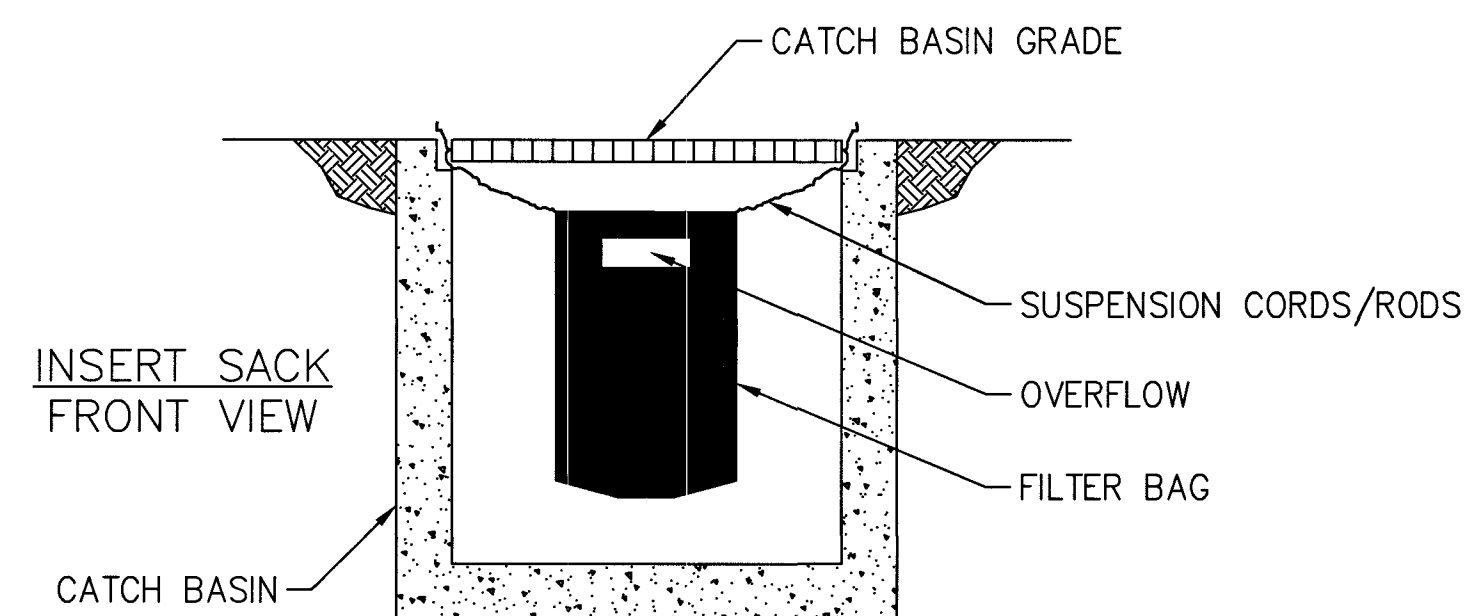
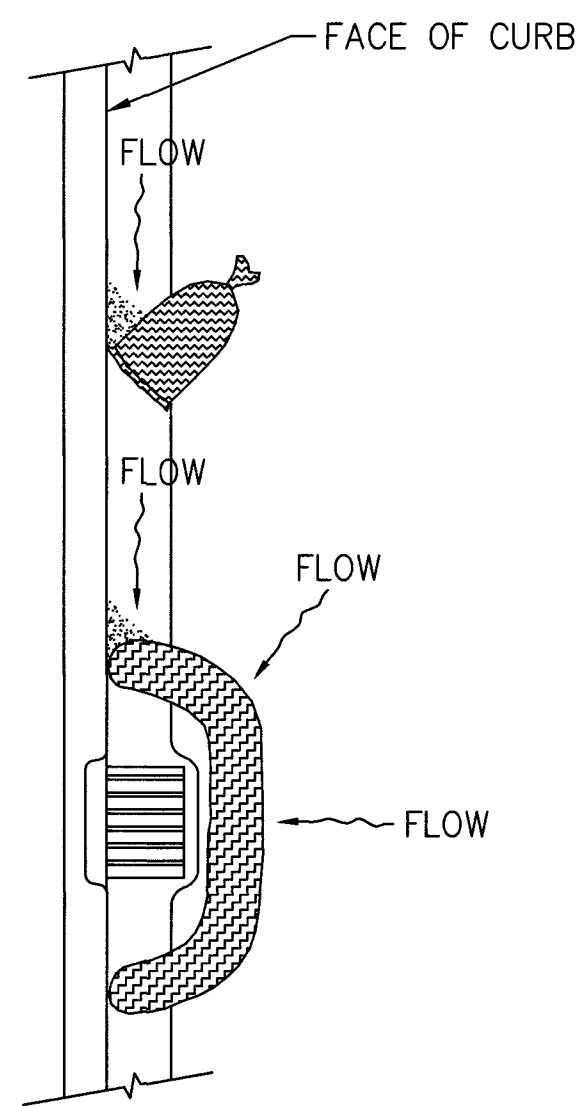
TYPICAL SWPPP BMP DETAILS



1. SOUTHWEST GAS CORPORATION, ITS CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMP'S FOR THE PROTECTION OF EXISTING STORM DRAIN INLETS, WITHIN OR SIGNIFICANTLY NEAR ANY IMPROVED RIGHT-OF-WAY, FROM DEBRIS AND SEDIMENT RESULTING FROM CONSTRUCTION OF NATURAL GAS FACILITIES.
2. SOUTHWEST GAS CORPORATION, ITS CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM, USING BEST MANAGEMENT PRACTICES DETAILED ON THIS SHEET.
3. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF SOUTHWEST GAS CORPORATION, ITS CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMP'S ON THIS SHEET DO NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.0/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMP'S SHALL BE REMOVED WITH SEVEN DAYS AFTER A STORM WATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.



- NOTE:
1. CONTRACTOR IS TO CLEAN DRAIN INLET FILTER AFTER EVERY STORM.
 2. CONTRACTOR IS TO REMOVE FABRIC JUST PRIOR TO PAVING.



- NOTE:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.

[illegible]

AS-BUILT DRAWING-PRESSURE TEST DATA		
	TEST MEDIUM	TEST METHOD
PIPE DIA.	☐ AIR	☐ GAUGE
PIPE LENGTH	☐ NITROGEN	☐ CHART
PIPE TYPE	☐ WATER	☐ GAUGE/
MIN. DURATION	☐ SOAP	PRESS REC SN#
TEST PRES. (PSIG): (MAX)	(MIN)	
TIME: (H)	(STOP)	
DATE: (START)	(STOP)	
PERFORMED BY:		
SNG VERIFIED BY:		

INDIVIDUAL PERFORMING VISUAL INSPECTION VISUAL INSPECTION CERTIFICATION I HAVE VISUALLY INSPECTED ALL HEATED FUSING JOINTS, FLUENT CEMENT, MECHANICAL JOINTS, AND WELDS THAT I HAVE PERFORMED	
NAME _____	DATE _____
SEE SHEET 3	
AS-BUILTS ACCEPTED BY _____	DATE _____
POSTED BY _____	DATE _____
POSTING QCD' BY _____	DATE _____

CONSTRUCTION	
INSPECTOR	_____
FOREMAN	_____
REVIEWED BY	_____
SEE SHEET 3	
PERMIT INFORMATION	
CITY OF LAS VEGAS	
TAX CODE 02-0200	

ISOLATION AREA	W.R. NO.	ENGINEER/TECH: RYAN STEMMERIK	PHONE: 702-365-2311
ISO_21_DIST_120	3483749	ACCOUNT REP: MAXWELL HUGHES	PHONE: 702-365-2022
		PROJECT CONTACT: DAVE WAGNER	PHONE: 702-258-4447
		SHEET NO: 6 OF 6	SCALE: NTS
		DWN. BY: SEI	DATE: 10/17/2017
		CHKD. BY:	APPVD. BY:
LOCATION	ATLAS #/TITLE #	TITLE	
SEC 24 T19S R60E M.D.M.	x609y560 x609y558	DECATUR AND DONALD TYPICAL SWPPP BMP DETAILS 117-00646 10745067-1	



Know what's **below**.
Call before you c

DECATUR AND DONALD TYPICAL SWPPP BMP DETAILS

L17-00646

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