

Plotted By: Zita, Jolynn Sheet Set: KHA Layout: C3 May 08, 2018 01:31:07pm W:\61533-LAURICH\DWG\MPR\DWGS\ONSTIE\01-61153-92-CL.dwg
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CONSTRUCTION QUANTITIES

	UNIT	PUBLIC	PRIVATE
1 CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216	LF	-	939
2 CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219	LF	-	5,702
3 CONSTRUCT 4" SIDEWALK PER CCAUSD NO. 234	SF	-	19,899
4 CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY WESTERN TECHNOLOGIES INC. SEE DETAIL "1" ON SHEET D3	SY	-	11,366
5 CONSTRUCT HEAVY AC PAVEMENT PER SOILS REPORT BY WESTERN TECHNOLOGIES INC. SEE DETAIL "2" ON SHEET D3	SY	-	12,045
6 CONSTRUCT PCC PAVEMENT PER PER SOILS REPORT BY WESTERN TECHNOLOGIES INC. DETAIL "3" ON SHEET D3	SF	-	2,547
7 CONSTRUCT PIPE PENETRATION PER DETAIL "4" ON SHEET D3	LF	1	-
8 CONSTRUCT TRASH ENCLOSURE PER SEPARATE ARCHITECTURAL PLANS & DETAILS (BY OTHERS)	EA	-	8
9 CONSTRUCT 0" CURB	LF	-	646
10 TRANSITION FROM 6" CURB TO 0" CURB PER DETAIL "5" ON SHEET D3	LF	-	270
11 CONSTRUCT ON-SITE ADA RAMP CASE I PER DETAIL "6" ON SHEET D3	EA	-	1
12 CONSTRUCT 3.0' WIDE VALLEY GUTTER PER DETAIL "16" ON SHEET D3	EA	-	450
13 CONSTRUCT ON-SITE ADA RAMP CASE II WITH HANDRAILS WHERE APPLICABLE PER DETAIL "7" ON SHEET D3	EA	-	15
15 INSTALL 18" RCP CLASS III STORM DRAIN PIPE	LF	-	527
16 INSTALL TRENCH DRAIN PER SEPARATE PLANS AND PERMIT. SEE GROCERY PLANS FOR DETAILS	LF	-	36
17 INSTALL 48" TYPE II MANHOLE PER CCAUSD NO. 405.2	EA	-	2
18 EXPOSED BUILDING FOOTING PER SEPARATE STRUCTURAL PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT)	LF	-	737
19 INSTALL 48"x48" DROP INLET PER JENSEN PRECAST NO. D14848 OR APPROVED EQUIVALENT, SEE DETAIL 9 ON SHEET D3	EA	-	4
20 CONSTRUCT CONCRETE RAISED TRUCK LOADING DOCK WITH RETAINING WALLS. DESIGN AND PERMITS BY OTHERS	LF	-	-
21 CONSTRUCT 4.5' MAX RETAINING WALL PER ARCH PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT)	LF	-	994
22 CONSTRUCT 6' MAX RETAINING WALL PER ARCH PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT)	LF	-	1,418
23 INSTALL RINKER STORMCEPTOR (STC 450) WITH LID PER DETAIL "10" ON SHEET D2 AND MANUFACTURERS SPECIFICATIONS	EA	-	2
24 INSTALL ROCK LINED SWALE R/R RAMP (DSU=6, T=12") PER DETAIL "11" ON SHEET D3	SF	-	90
25 CONSTRUCT 2.0' WIDE CURB OPENING PER DETAIL "12" ON SHEET D3	EA	-	3
26 CONSTRUCT BLOCK WALL OPENING PER DETAIL "13" ON SHEET D3	EA	-	1
27 CONSTRUCT TERRACE PER ARCH PLANS & DETAILS BY OTHERS	EA	-	-
28 INSTALL 2.0' CONCRETE FLUME PER DETAIL "14" ON SHEET D3	EA	-	3
29 CONSTRUCT 2.0' HIGH SOLID GROUTED SCREEN WALL PER SNBORS B-100-1 OR SEPARATE STRUCTURAL PLANS BY OTHERS	LF	-	301
30 CONSTRUCT 6" BERM	LF	-	390
31 CONSTRUCT ON-SITE ADA RAMP CASE III PER DETAIL "15" ON SHEET D3	EA	-	1
32 BUILDING WALL TO RETAIN PER SEPARATE STRUCTURAL PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT)	LF	-	39
33 CONSTRUCT 42" HANDRAIL - SEE ARCH PLANS FOR DETAILS	LF	-	46
34 CONSTRUCT PRECAST BUMPER BLOCK PER CCAUSD DWG NO. 238	EA	-	37
35 INSTALL ROOF DRAINS TO SPILL TO GRADE WITH SPLASHBLOCK PER GROCERY ARCH PLANS	EA	-	7
36 INSTALL STAIRS PER PLANS BY ARCH	EA	-	6
37 INSTALL 18" RCP THROUGH RETAINING WALL PER DETAILS BY OTHERS	EA	-	1
38 CONSTRUCT 6' SCREEN WALL PER ARCH PLANS & DETAILS BY OTHERS	LF	-	278
39 SAWCUT & MATCH EXISTING	LF	271	-
40 CONSTRUCT HEAVY ASPHALT FOR INVO AVE	LF	6,625	-
41 CONSTRUCT 4.0' (6" CMU OR EQUIVALENT) HIGH SCREEN WALL PER SNBORS B-100-1 OR SEPARATE STRUCTURAL PLANS BY OTHERS	LF	-	331
42 CONSTRUCT MODIFIED ROLL CURB #1 PER DETAIL "16" ON SHEET G0	LF	-	36
43 CONSTRUCT MODIFIED ROLL CURB #2 PER DETAIL "17" ON SHEET G0	LF	-	30
44 TRANSITION FROM "L" CURB TO ROLL CURB #1 PER DETAIL "18" ON SHEET G0	LF	-	50
45 TRANSITION FROM "A" CURB TO ROLL CURB #2 PER DETAIL "19" ON SHEET G0	LF	-	30
46 INSTALL RINKER STORMCEPTOR (STC 9000) WITH LID PER DETAIL "20" SHEET C3 & MANUFACTURERS SPECIFICATIONS	EA	-	-

WATER QUANTITIES

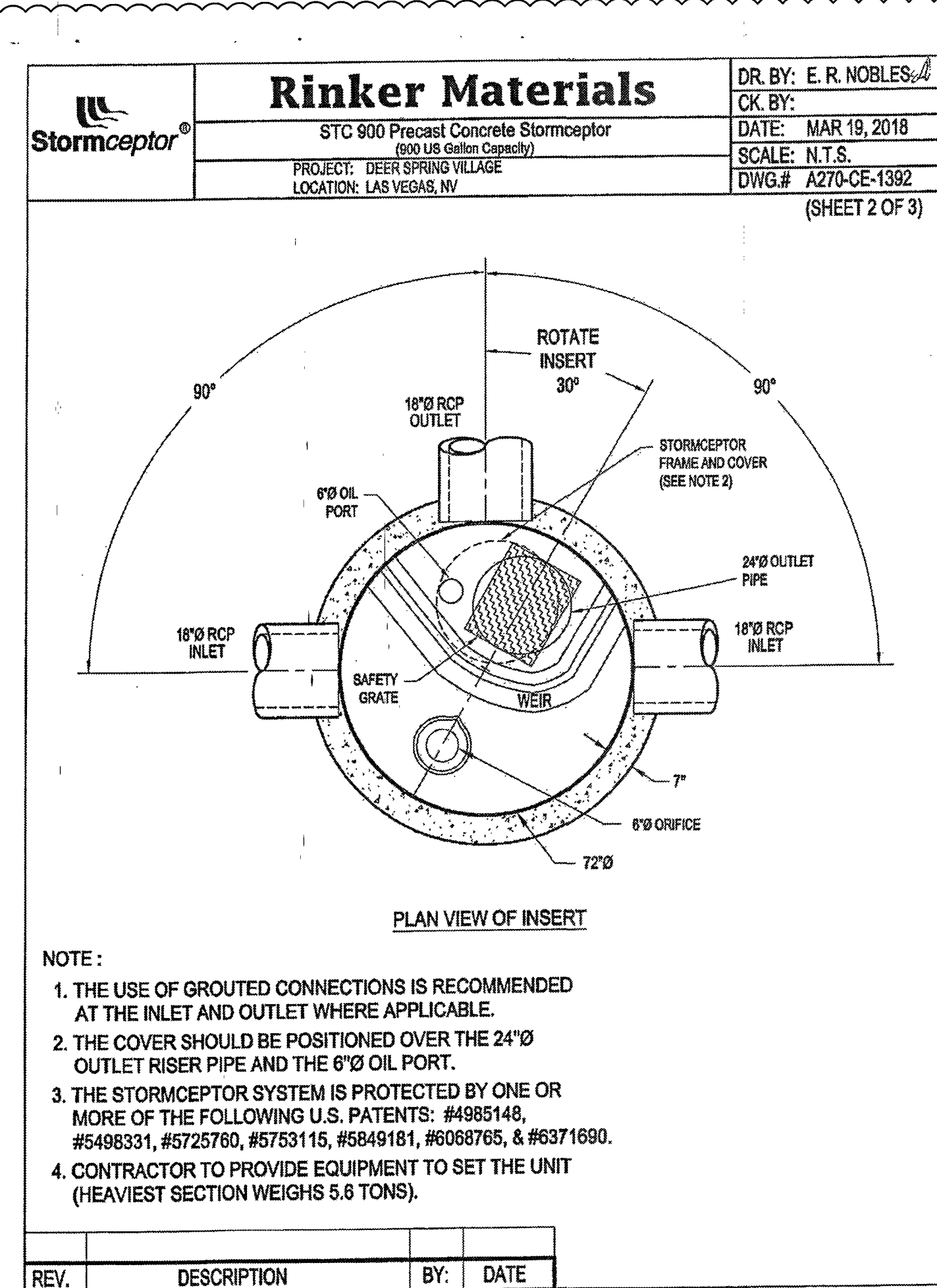
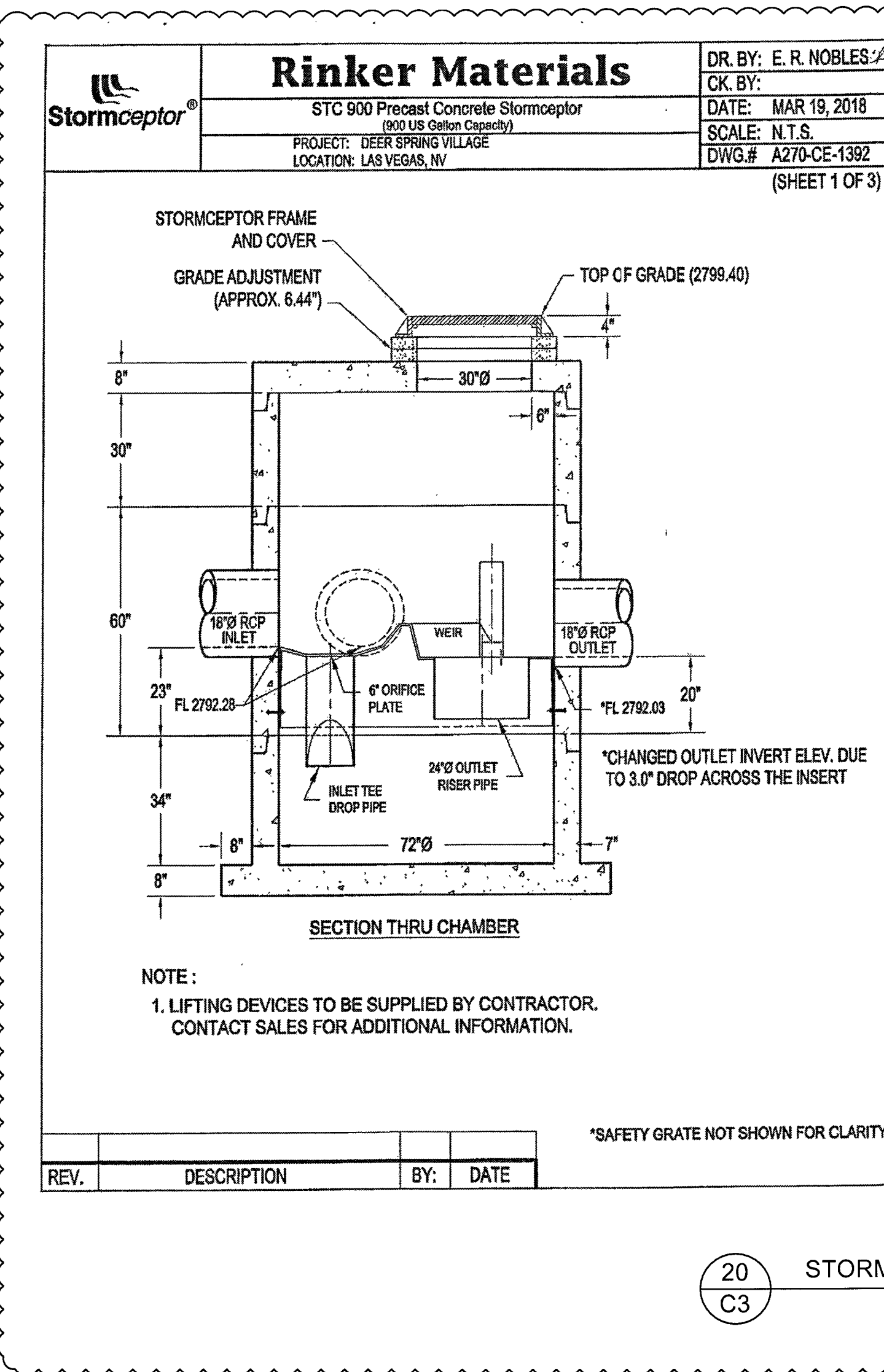
	UNIT	PUBLIC	PRIVATE
1 INSTALL 2" SERVICE SADDLE & CORPORATION STOP PER UDACS PLATE NO. 4	EA	1	-
2 INSTALL 2" METER PER UDACS PLATE NO. 4	EA	1	-
3 INSTALL 2" RPPA PER UDACS PLATE NO. 8	EA	1	-
4 INSTALL 2" COPPER WATER LINE (PUBLIC)	LF	23	-
5 INSTALL 2" BRASS WATER LINE (PUBLIC)	LF	10	-
6 INSTALL 1.5" SERVICE SADDLE & CORPORATION STOP PER UDACS PLATE NO. 4	EA	6	-
7 INSTALL 1.5" METER PER UDACS PLATE NO. 4	EA	6	-
8 INSTALL 1.5" RPPA PER UDACS PLATE NO. 8	LF	6	-
9 INSTALL 1.5" COPPER WATER LINE (PUBLIC)	LF	93	-
10 INSTALL 1.5" BRASS WATER LINE (PUBLIC)	LF	21	-
11 INSTALL 1" SERVICE SADDLE & CORPORATION STOP PER UDACS PLATE NO. 4	EA	1	-
12 INSTALL 1" METER PER UDACS PLATE NO. 4	EA	1	-
13 INSTALL 1" RPPA PER UDACS PLATE NO. 8	EA	1	-
14 INSTALL 1" COPPER WATER LINE (PUBLIC)	LF	13	-
15 INSTALL 1" BRASS WATER LINE (PUBLIC)	LF	6	-
16 INSTALL 10" RPPA PER UDACS PLATE NO. 59	EA	2	-
17 INSTALL 8" PVC FIRE WATER LINE (PRIVATE)	LF	-	1,882
18 INSTALL 6" PVC FIRE WATER LINE (PRIVATE)	LF	-	698
19 INSTALL 2" PVC DOMESTIC WATER LINE (PRIVATE)	LF	-	1,292
20 INSTALL 1.5" DOMESTIC WATER LINE (PRIVATE)	LF	-	684
21 INSTALL 1.5" PVC IRRIGATION WATER LINE	LF	-	2
22 INSTALL 1" DOMESTIC WATER LINE (PRIVATE)	LF	-	111
23 INSTALL 90° BEND SAME SIZE AS LINE PER UDACS PLATE 31	EA	-	19
24 INSTALL 45° BEND SAME SIZE AS LINE PER UDACS PLATE 31	EA	-	3
25 1.5"x1.5" REDUCER PER UDACS PLATE NO. 30	EA	-	1
26 INSTALL FIRE HYDRANT PER UDACS PLATE NO. 40	EA	-	7
27 INSTALL GATE VALVE SAME SIZE AS LINE PER UDACS PLATES NO. 30 & 39	EA	-	7
28 INSTALL 10"x8" REDUCER WITH THRUST BLOCK PER UDACS PLATE NO. 30	EA	-	2
29 INSTALL 8"x8" REDUCER WITH THRUST BLOCK PER UDACS PLATE NO. 30	EA	-	1
30 INSTALL 8"x8" TEE PER UDACS PLATE NO. 31	EA	-	2
31 INSTALL 8"x8" TEE PER UDACS PLATE NO. 31	EA	-	11
32 INSTALL 2"x2" TEE	EA	-	1
33 STUB & CAP FOR IRRIGATION	EA	-	1
34 STUB & CAP - SEE PLUMBING PLANS FOR CONTINUATION	EA	-	6
35 INSTALL 10" PVC FIRE WATER LINE (PUBLIC)	LF	9	-
36 INSTALL 3" PVC DOMESTIC WATER LINE (PRIVATE)	LF	-	210
37 REMOVE CAP & CONNECT	EA	1	-
38 2"x1.5" REDUCER PER UDACS PLATE NO. 30	EA	-	1
39 INSTALL 22.5° BEND SAME SIZE AS LINE PER UDACS PLATE 31	EA	-	2
40 INSTALL 1.5"x2" ENLARGER PER UDACS PLATE NO. 30	EA	-	1

SEWER QUANTITIES

	UNIT	PUBLIC	PRIVATE
1 CONTRACTOR TO VERIFY INVERT OF EXISTING SEWER MAIN PRIOR TO COMMENCING CONSTRUCTION	EA	1	-
2 INSTALL 48" DIA. SANITARY SEWER MANHOLE PER DCSWCS SD-1A, SD-5 & SD-4	EA	1	3
3 INSTALL 8" PVC (SDR-35 SEWER MAIN PER DDCSWCS SD-16 & SD-17	LF	462	822
4 INSTALL 6" PVC SDR-35 SEWER LATERAL PER SD-22	LF	-	1,380
5 INSTALL 6" CLEAN OUT PER SD-26 (TRAFFIC RATED LID)	EA	-	13
6 STUB & CAP - SEE PLUMBING PLANS FOR CONTINUATION	EA	-	10
7 INSTALL WYE & 45° BEND PER SD-22	EA	-	11
8 INSTALL 72" DIA. SANITARY SEWER MANHOLE PER DCSWCS SD-1A, SD-5 & SD-4 WITH 24" SINGLE LID	EA	1	-

ON-SITE SIGNAGE QUANTITIES

	UNIT	PUBLIC	PRIVATE
1 INSTALL "STOP SIGN" R-1	EA	4	-
2 INSTALL BLUE REFLECTIVE PAVEMENT MARKER IN THE FIRE LANE ADJACENT TO FIRE HYDRANT	EA	-	9
3 PAINT CURB RED & STENCIL IN WHITE PAINT "FIRE LANE - NO PARKING"	LF	-	2,003
4 INSTALL ENTRANCE WARNING SIGN PER DETAIL ON H SHEETS (OR EQUIVALENT)	EA	-	4
5 INSTALL ADA SIGN PER DETAIL THIS SHEET (OR EQUIVALENT)	EA	-	13
6 INSTALL FIRE LANE SIGNS PER CLV STANDARDS, DETAIL ON H SHEETS	EA	-	20

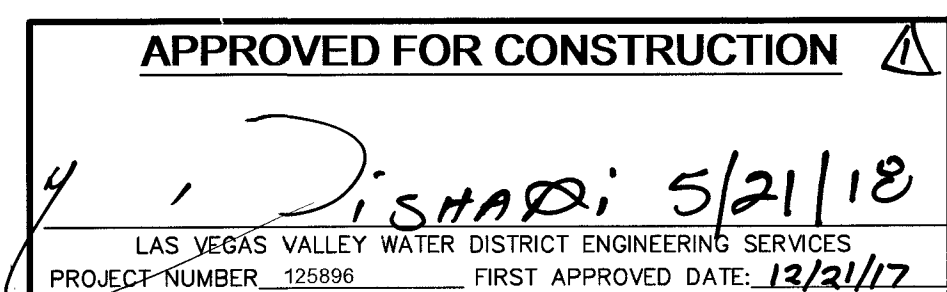


CONTRACTOR NOTE

CONTRACTOR SHALL BE RESPONSIBLE AT HIS COST FOR REPAIR OF DAMAGE OF EXISTING IMPROVEMENTS CAUSED BY HIS OPERATIONS.

QUANTITIES NOTE

QUANTITIES PROVIDED FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO ASCERTAIN QUANTITIES PER THE DRAWINGS. OWNER DOES NOT ALLOW OR ACCEPT BID PROPOSALS WITH POST CONSTRUCTION FIELD MEASURED QUANTITIES.



Kimley»Horn
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6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
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QUANTITIES

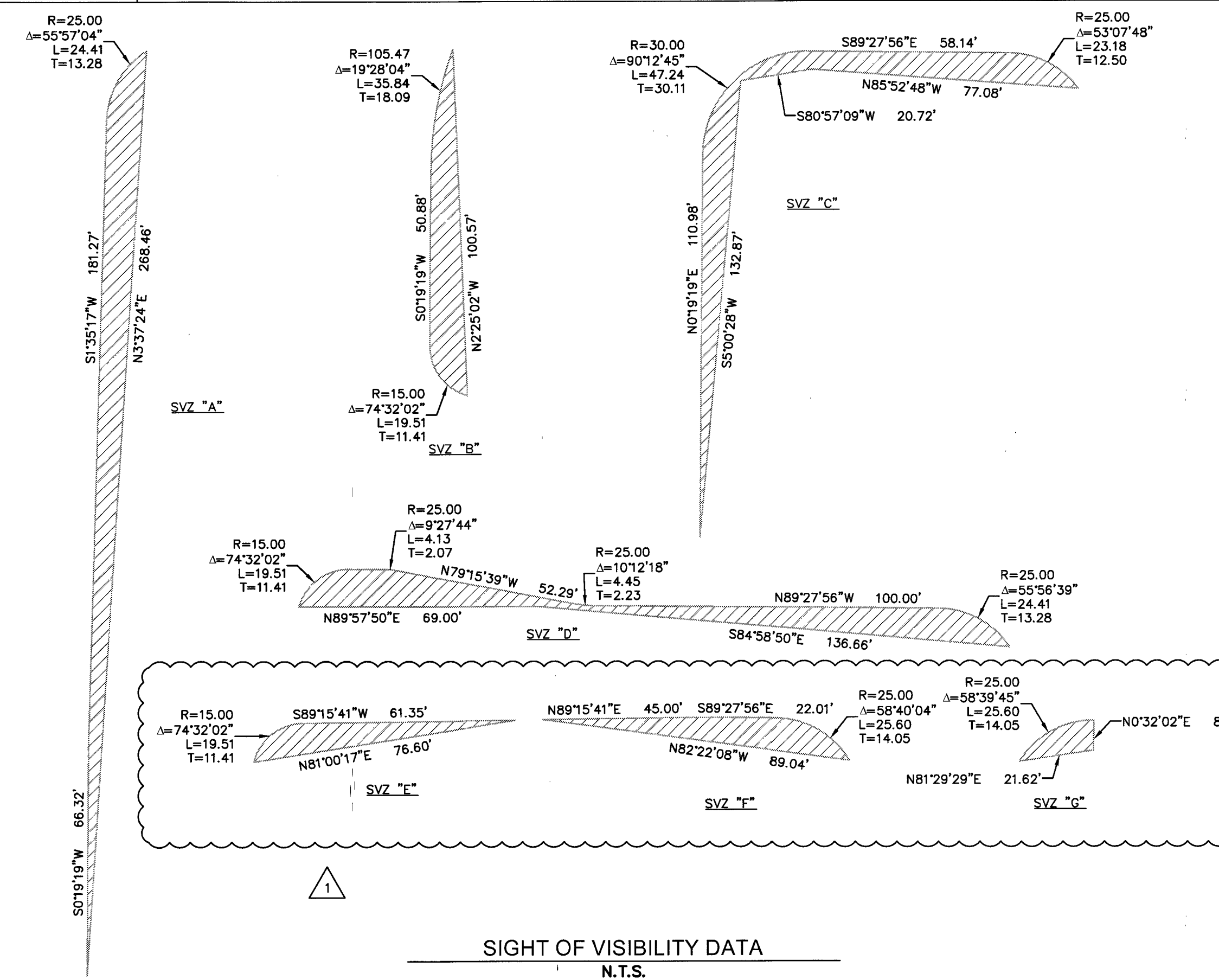
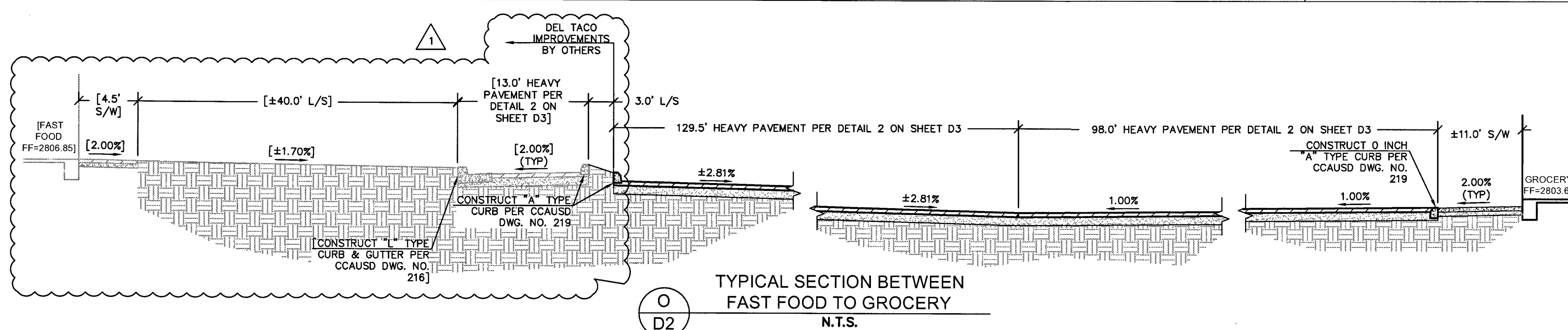
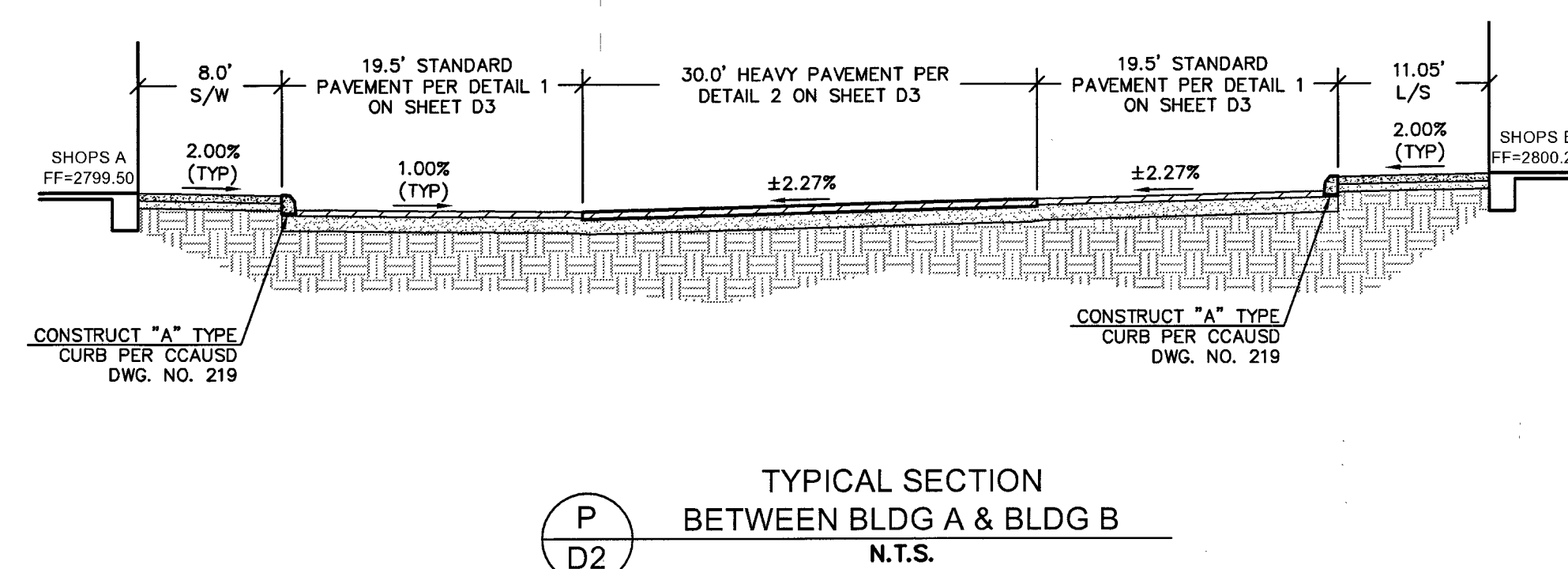
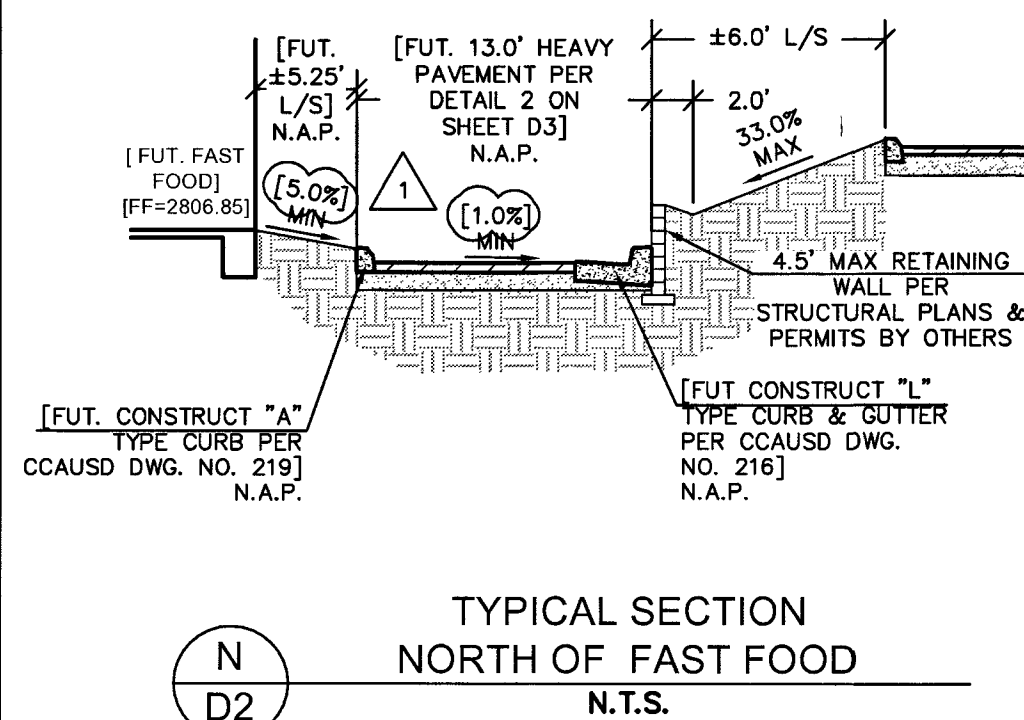
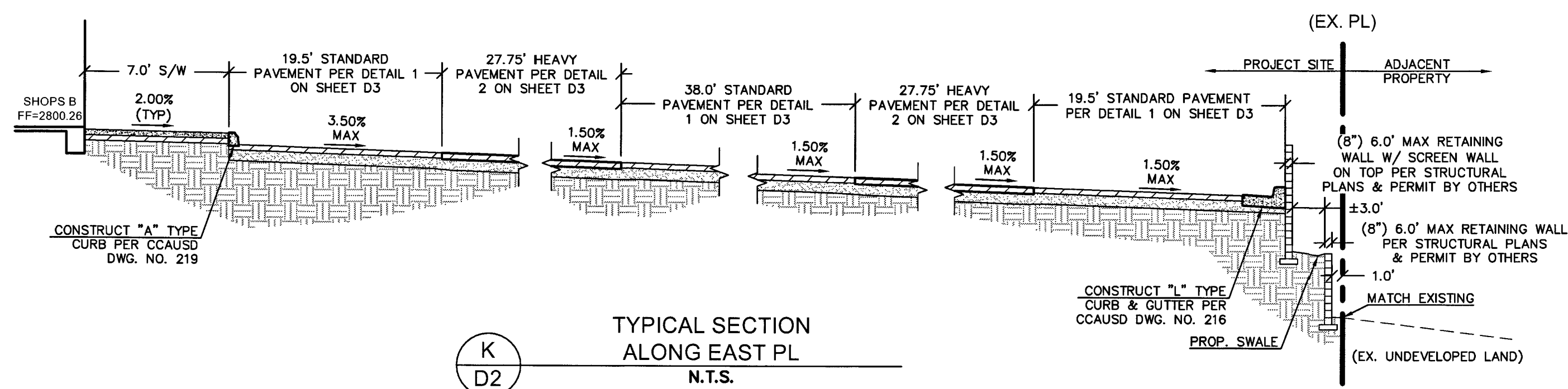
DEER SPRINGS VILLAGE
@ SEC DEER SPRINGS & HUALAPAI

3 OF 19 SHEETS
C3

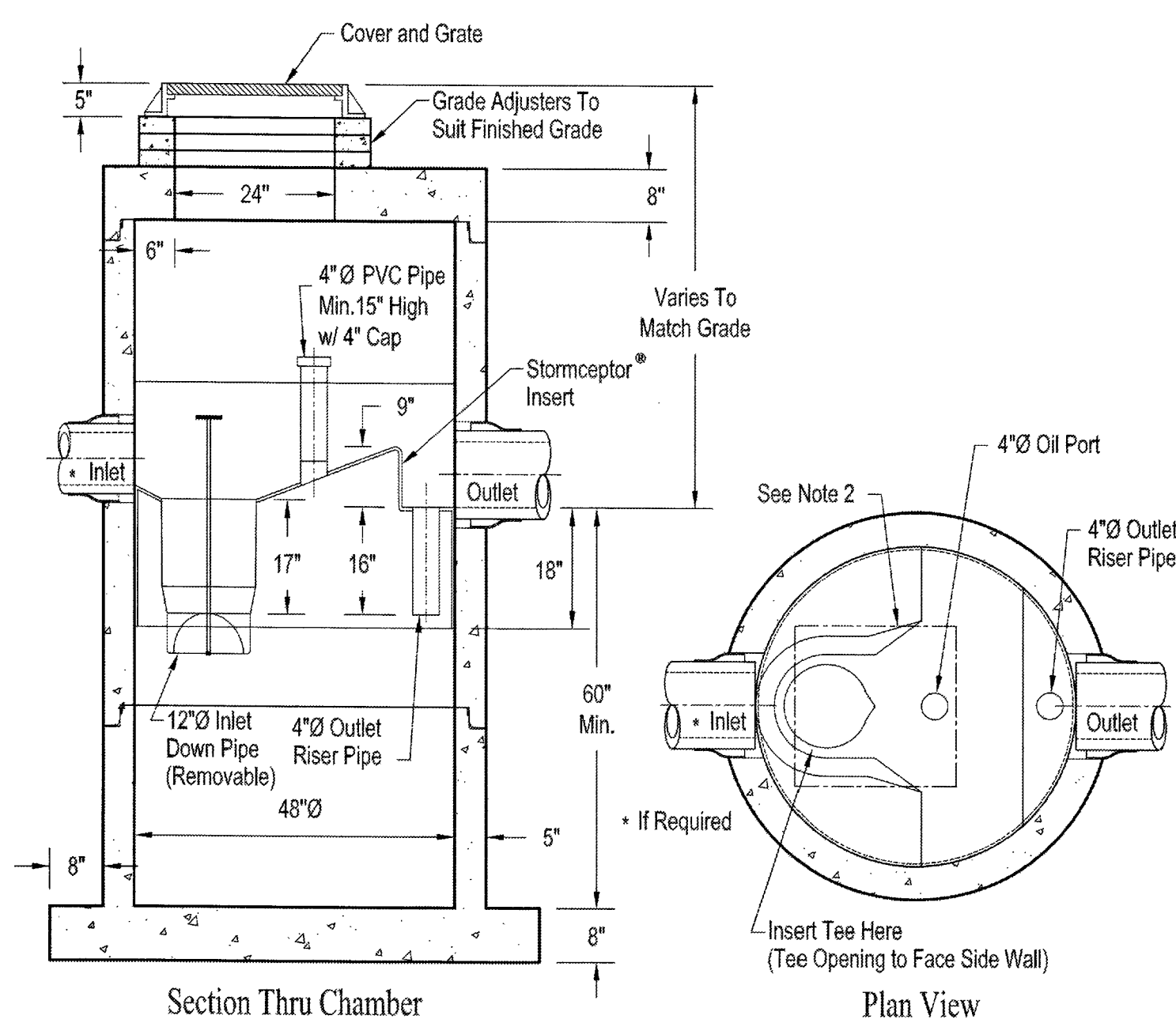
PROJ.#: 125896 AGR: 116321 QS: 125-18-SW

REVISIONS

No.	REVISIONS	DATE
2	UPDATE QUANTITIES & NOTES	5-20-18
1	UPDATE QUANTITIES & NOTES	5-10-18



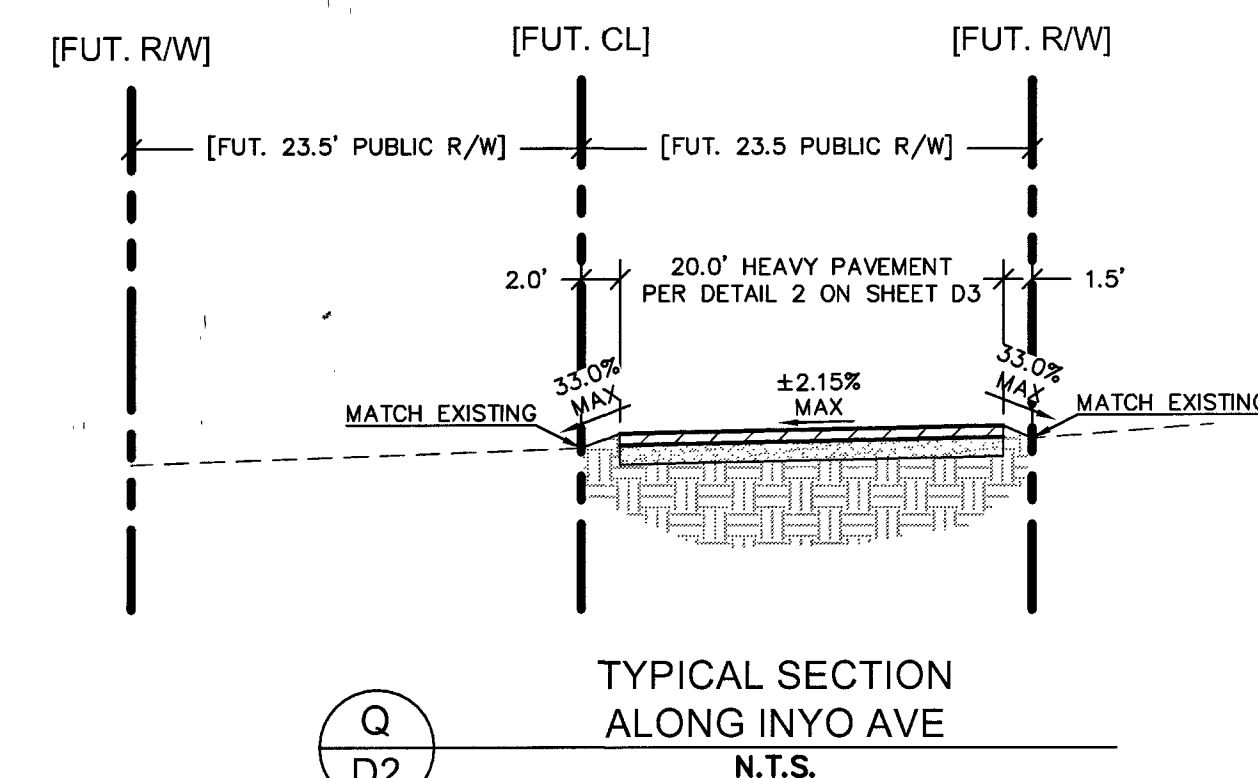
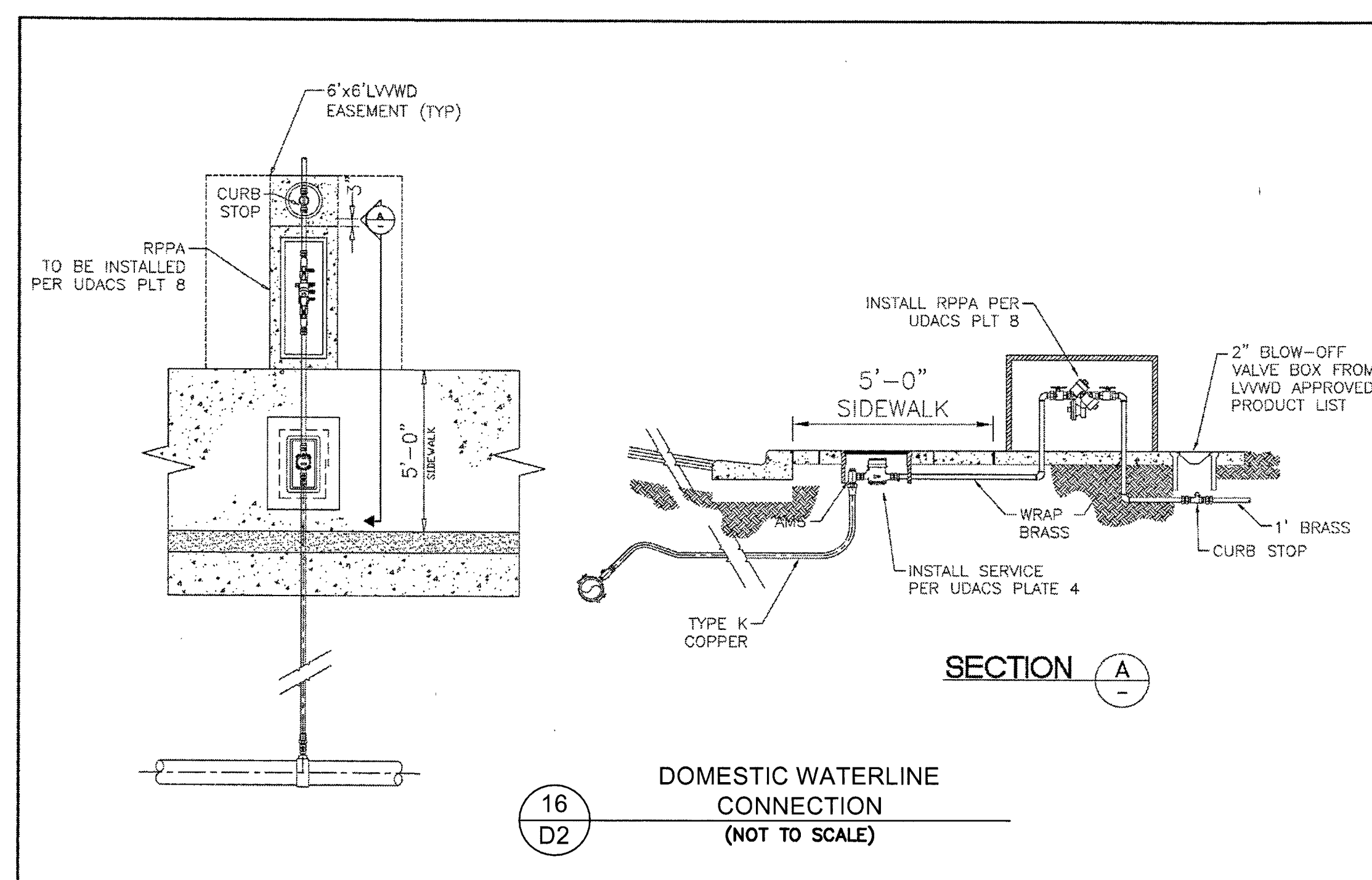
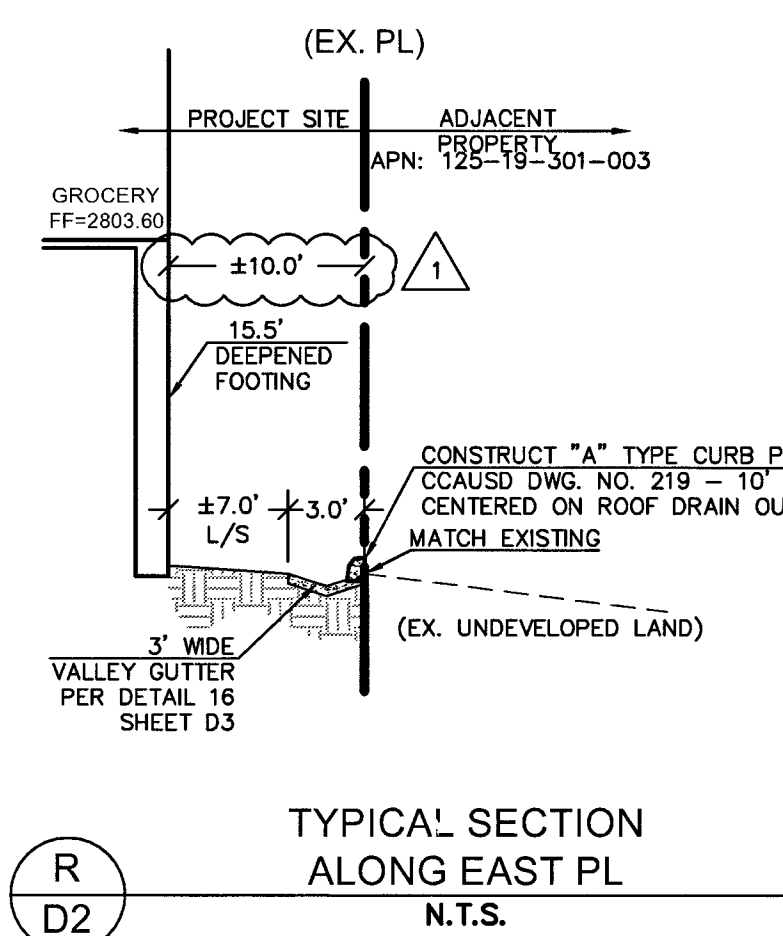
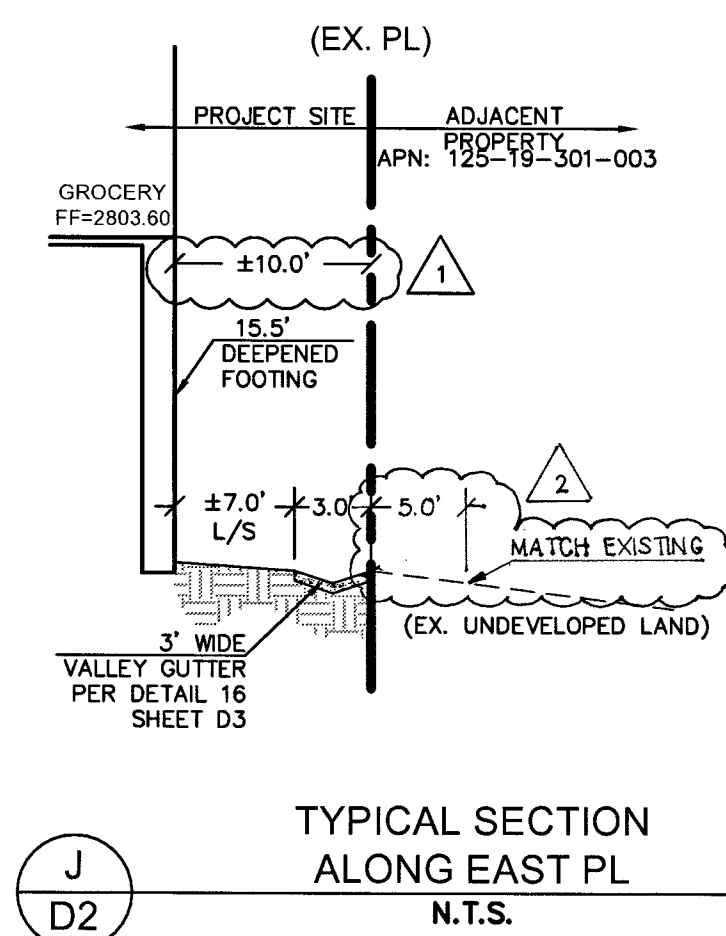
**STC 450i Precast Concrete Stormceptor®
(450 U.S. Gallon Capacity)**



Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 027



APPROVED FOR CONSTRUCTION

4 DISHAD 5/21/11
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES
PROJECT NO. 125896 FIRST APPROVED DATE: 12/21/17

CLV#: 107Y5072

L17-00759

TYPICAL SECTIONS

DEER SPRINGS VILLAGE
@ SEC DEER SPRINGS & HUALAPAI

5 OF 19 SHEETS

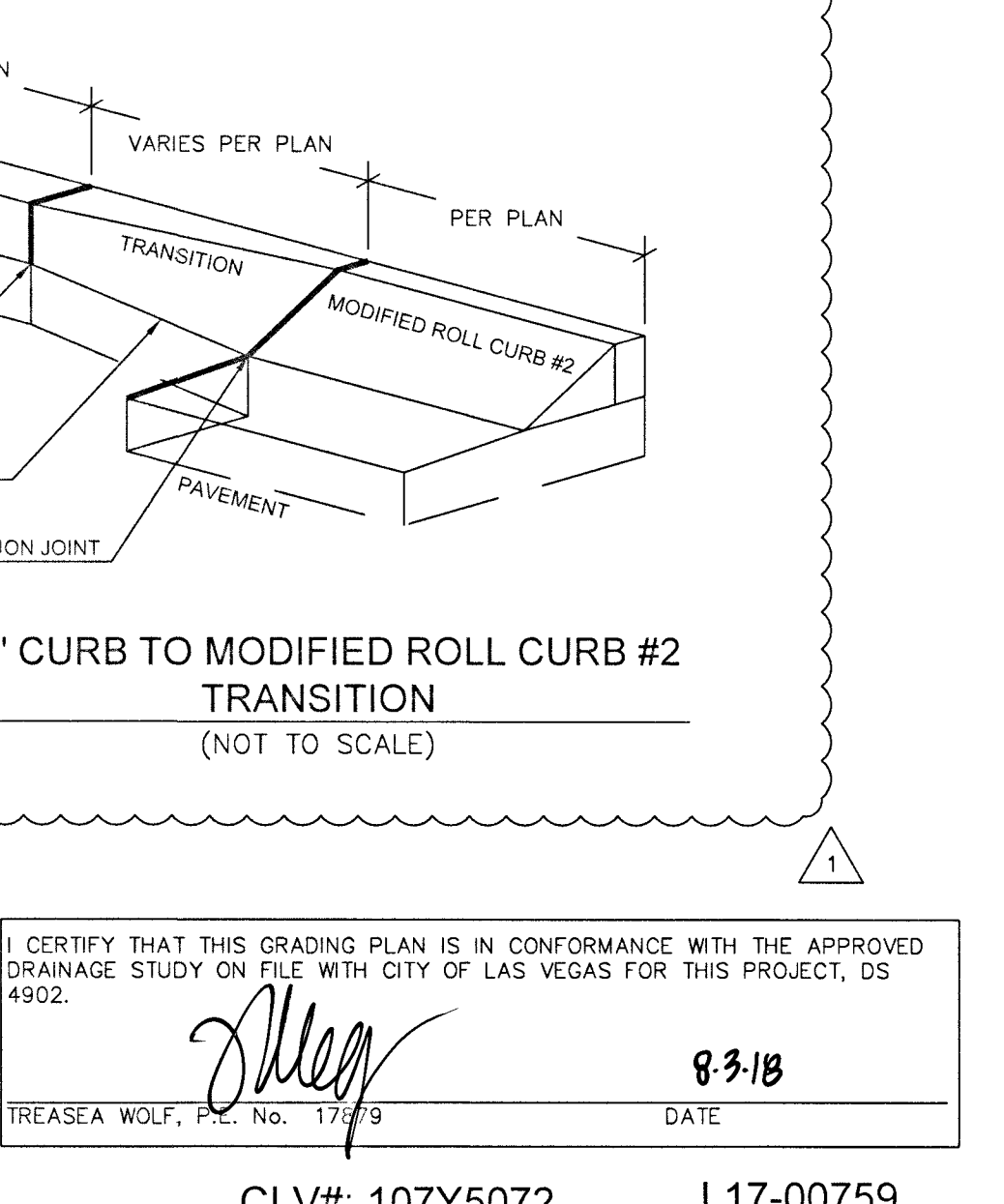
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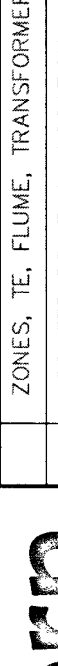
Kimley»Horn

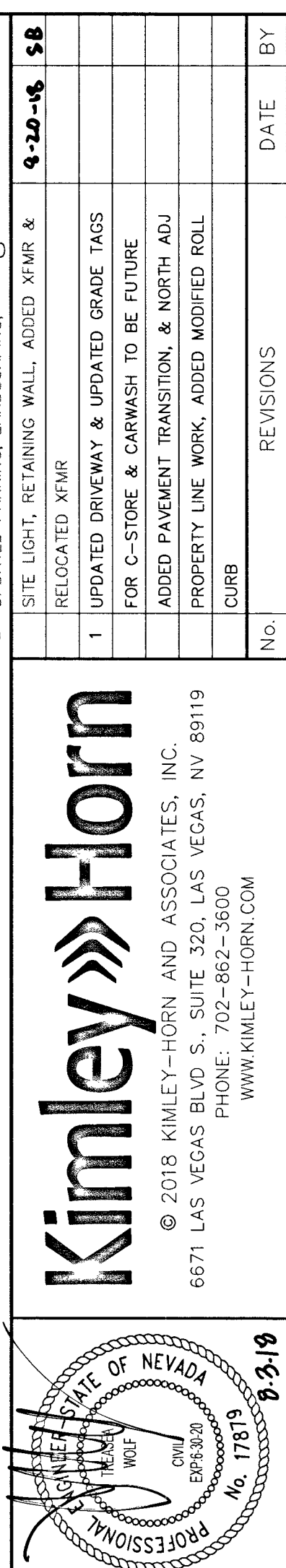
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BLVD S., SUITE 320, LAS
HONE: 702-862-3600
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KHA PROJECT					
61153.52					
DATE					
NOV. 9, 2017					
SCALE AS SHOWN					
DESIGNED BY JZ					
DRAWN BY CT					



7 OF 19 SHEETS	DEER SPRINGS VILLAGE	GRADING PLAN	KHA PROJECT 61153.52	NOV. 9, 2017	DATE	NOV. 9, 2017	SCALE AS SHOWN	DESIGNED BY JZ	DRAWN BY JZ	CHECKED BY TW		 © 2018 KIMLEY-HORN AND ASSOCIATES, INC. 6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119 PHONE: 702-862-3600 WWW.KIMLEY-HORN.COM	2 UPDATED PARKING & L/V'S, MOVED LOADING 1 ZONES, TE, FLUME, TRANSFORMER & LIGHT UPDATED DRIVEWAY LOCATION, ADA RAMP, SHOPS B DOOR, ADA PARKING, STALLS IN FRONT OF FAST FOOD & NORTH ADJ PROPERTY LINE WORK, ADDED DETAIL FOR MODIFIED ROLL CURBS & TRANSITIONS	NO. REVISIONS DATE BY
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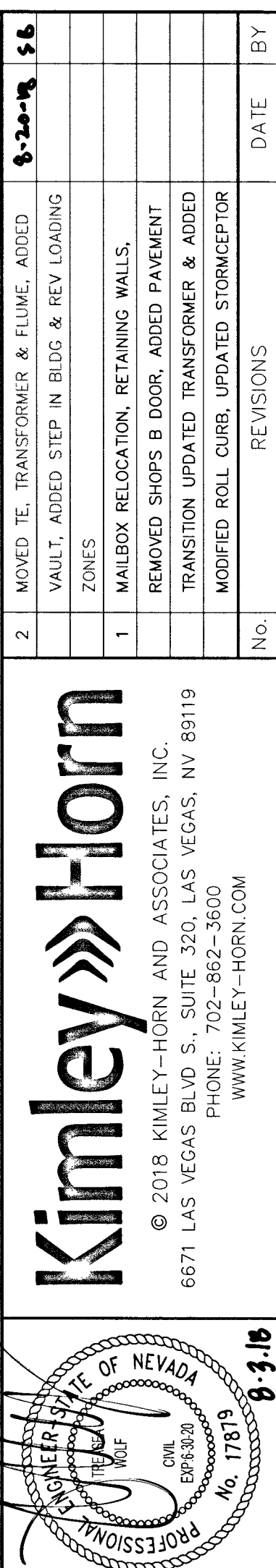


CONSTRUCTION NOTES

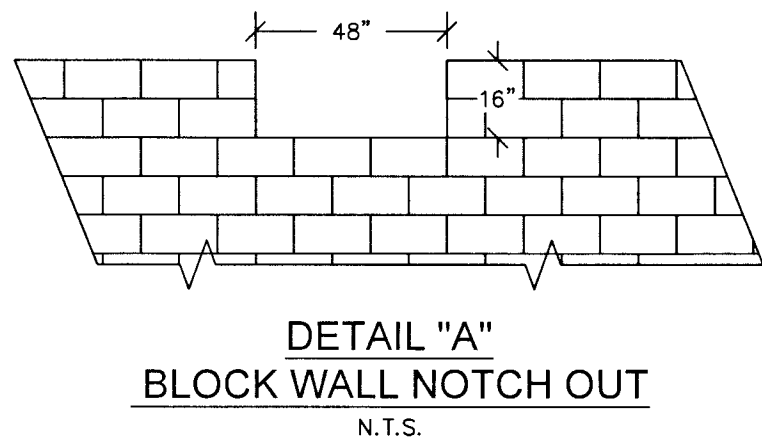
- ## LEGEND
- | | |
|----|---------------------------|
| | PROPERTY LINE |
| | STREET CENTERLINE |
| | RETAINING WALL |
| | BUILDING |
| | EXISTING CONTOUR |
| | CONTOUR |
| | CURB & GUTTER |
| | CURB |
| | EXISTING EDGE OF PAVEMENT |
| | EXISTING CURB & GUTTER |
| | EXISTING CURB |
| | EXISTING BUILDING |
| | CONSTRUCTION NOTE |
| | CUT FILL TRANSITION |
| | SAWCUT LIMITS |
| | SCARP
SLOPE |
| | FLOW LINE |
| | EASEMENT LINE |
| | HANDICAP PARKING |
| FS | FINISHED SURFACE |
| CF | CURB FACE |
| TC | CURB BACK |
| EP | EDGE OF PAVEMENT |
| TG | TOP OF GRATE |
| | GRADE |
| | EXISTING GRADE |
| | EXPOSED FOOTING |
| | BLDG WALL TO RETAIN |



CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	39.36'	90°12'45"	25.09'
C2	17.00'	3.03'	10°12'18"	1.52'
C3	33.00'	5.88'	10°12'18"	2.95'
C4	1120.00'	174.40'	8°55'19"	87.38'
C5	95.00'	30.17'	18°11'42"	15.21'
C6	105.00'	33.34'	18°11'42"	16.81'



1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY WESTERN TECHNOLOGIES, DATED FEBRUARY 9, 2017 PROJECT NO. 4126J030.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-ONE/2 INCH ABOVE THE TOP OF THE GUTTER (INCLUDING OPEN GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
6. ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS NOT PART OF AN EXISTING COMMERCIAL SUBDIVISION.
9. PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES SUCH AS BUT NOT LIMITED TO THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF THE VEGETATION.



ALL ON-SITE STORM DRAINS AND THE ASSOCIATED FACILITIES ARE PRIVATELY OWNED AND TO BE PRIVATELY MAINTAINED BY THE PROPERTY OWNERS.

*NOTE: THESE QUANTITIES ARE APPROXIMATE AND ARE RAW VOLUMES ONLY. OVEREXCAVATION SUBSIDENCE, SHRINKAGE, & BULKING FACTORS ARE NOT TAKEN INTO ACCOUNT.

CUT = 5,751 C.Y.
FILL = 66,425 C.Y.

1. THE OWNER, SITE DEVELOPER, 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 THE 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.

LINE TABLE		
LINE	LENGTH	BEARING
L1	141.18	N89°27'56.45"W
L2	51.98	N79°15'38.89"W
L3	100.00	N89°27'56.45"W
L4	73.77	N81°27'04.99"E
L5	73.77	N81°27'04.99"E
L6	150.99	N89°15'40.64"E
L7	67.74	N89°27'56.45"W
L8	669.44	N0°04'08.34"E
L9	136.43	N0°04'08.34"E
L10	153.21	S62°30'17.00"E
L11	339.21	N89°32'44.04"W
L12	88.23	N0°19'19.00"E
L13	87.55	N0°19'19.00"E
L14	136.93	N0°19'19.00"E

2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY BUILDING ADMINISTRATIVE CODE 24.40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.

3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.

4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND

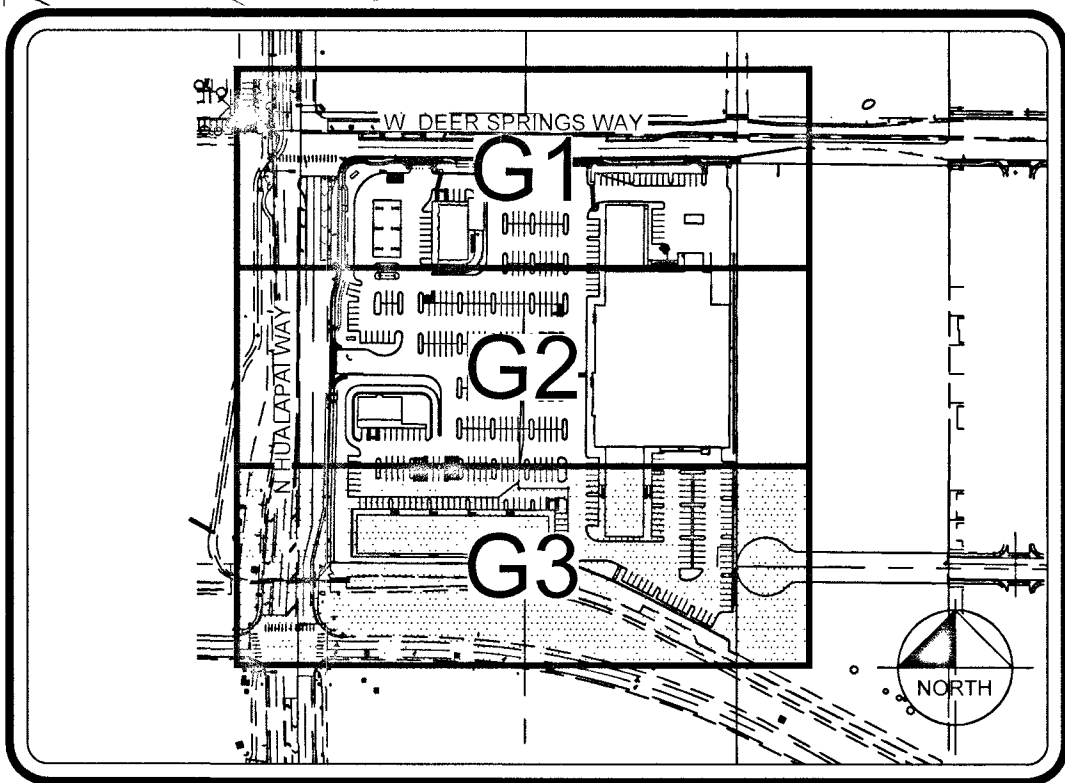
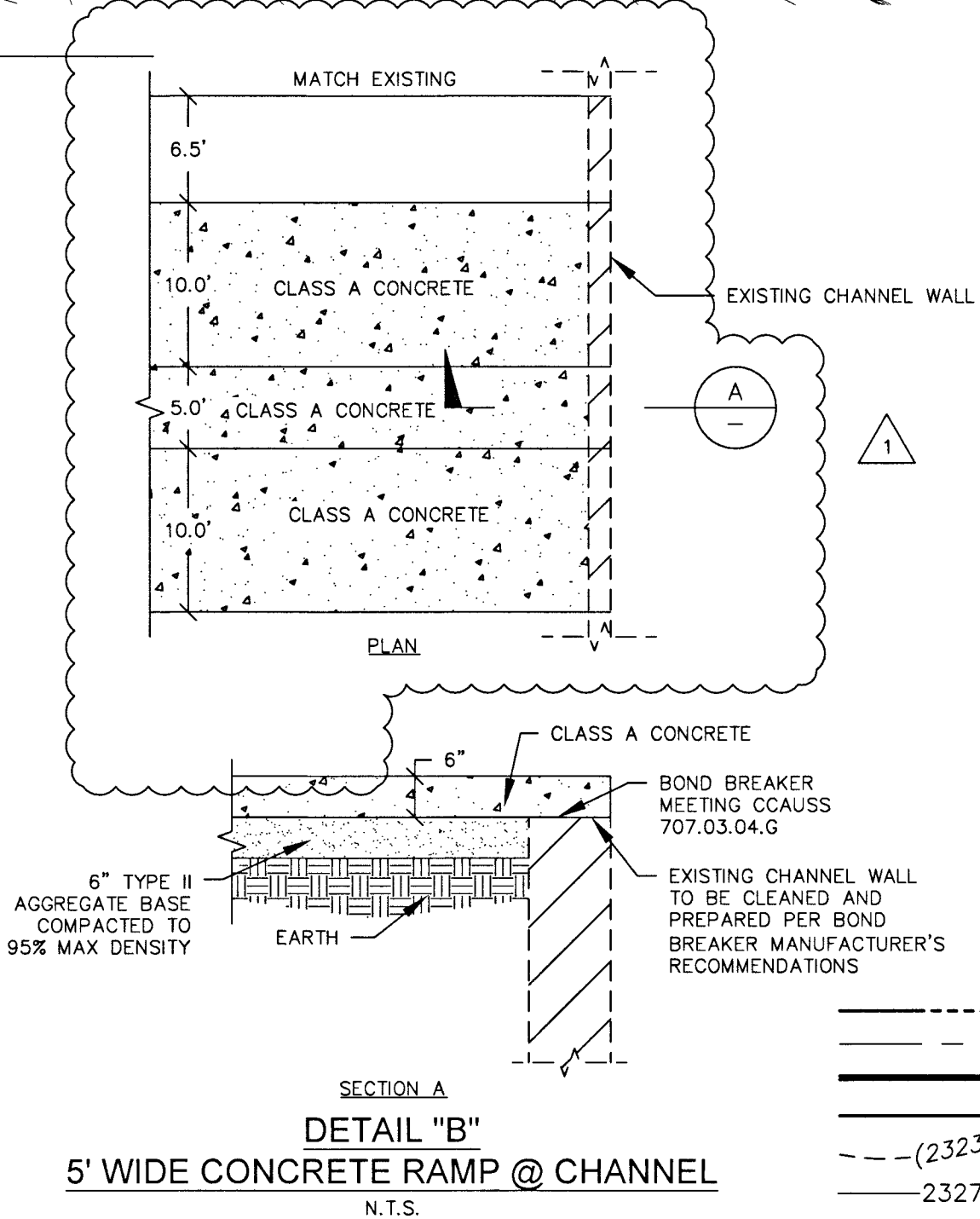
EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN

AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.

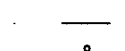
5 ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN

DAYS AFTER A STORMWATER 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.

- 1 CONSTRUCT "L" TYPE CURB & GUTTER PER CCAUSD NO. 216
- 2 CONSTRUCT "A" TYPE CURB PER CCAUSD NO. 219
- 3 CONSTRUCT 4" SIDEWALK PER CCAUSD NO. 234
- 4 CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY WESTERN TECHNOLOGIES INC. SEE DETAIL "1" ON SHEET D3
- 5 CONSTRUCT HEAVY AC PAVEMENT PER SOILS REPORT BY WESTERN TECHNOLOGIES INC. SEE DETAIL "2" ON SHEET D3
- 7 CONSTRUCT PIPE PENETRATION PER DETAIL "4" ON SHEET D3
- 8 CONSTRUCT TRASH ENCLOSURE PER SEPARATE ARCHITECTURAL PLANS & DETAILS (BY OTHERS)
- 9 CONSTRUCT 0" CURB
- 10 TRANSITION FROM 6" CURB TO 0" CURB PER DETAIL "5" ON SHEET D3
- 13 CONSTRUCT ON-SITE ADA RAMP CASE II WITH HANDRAILS WHERE APPLICABLE PER DETAIL "7" ON SHEET D3
- 15 INSTALL 18" RCP CLASS III "ST" DRAIN PIPE
- 18 EXPOSED BUILDING FOOTING PER SEPARATE STRUCTURAL PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT)
- 19 INSTALL 48"x48" DROP INLET PER JENSEN PRECAST NO D14B40 OR APPROVED EQUIVALENT, SEE DETAIL 9 ON SHEET D3
- 22 CONSTRUCT 6" MAX RETAINING WALL PER PLANS & DETAILS BY OTHERS (PER SEPARATE PERMIT)
- 23 INSTALL RINKER STORMCEPTOR (STC 450) WITH LID PER DETAIL "10" ON SHEET D2 AND MANUFACTURERS SPECIFICATIONS
- 26 INSTALL 2.0' CONCRETE FLUME PER DETAIL "14" ON SHEET D3
- 29 CONSTRUCT 2.0' (8" CMU OR EQUIVALENT) HIGH SOLID GROUTED SCREEN WALL PER SNBORS B-100-1 OR SEPARATE STRUCTURAL PLANS BY OTHERS
- 33 CONSTRUCT 42" HANDRAIL - SEE ARCH PLANS FOR DETAILS
- 34 CONSTRUCT PRECAST BUMPER BLOCK PER CCAUSD DWG NO. 238
- 35 INSTALL ROOF DRAINS TO SPILL TO GRADE WITH SPLASHBLOCK PER GROCERY ARCH PLANS
- 37 INSTALL 18" RCP THROUGH RETAINING WALL PER DETAILS BY OTHERS
- 38 CONSTRUCT 6" SCREEN WALL PER ARCH PLANS & DETAILS BY OTHERS
- 40 PROVIDE 48" X 16" BLOCK WALL NOTCH OUT FOR EMERGENCY OVERTFLOW - SEE DETAIL "A" ON SHEET G3
- 41 CONSTRUCT 4.0' (8" CMU OR EQUIVALENT) HIGH SCREEN WALL PER SNBORS B-100-1 OR SEPARATE STRUCTURAL PLANS BY OTHERS
- 43 CONSTRUCT MODIFIED ROLL CURB #2 PER DETAIL "17" ON SHEET G0



N.T.S.

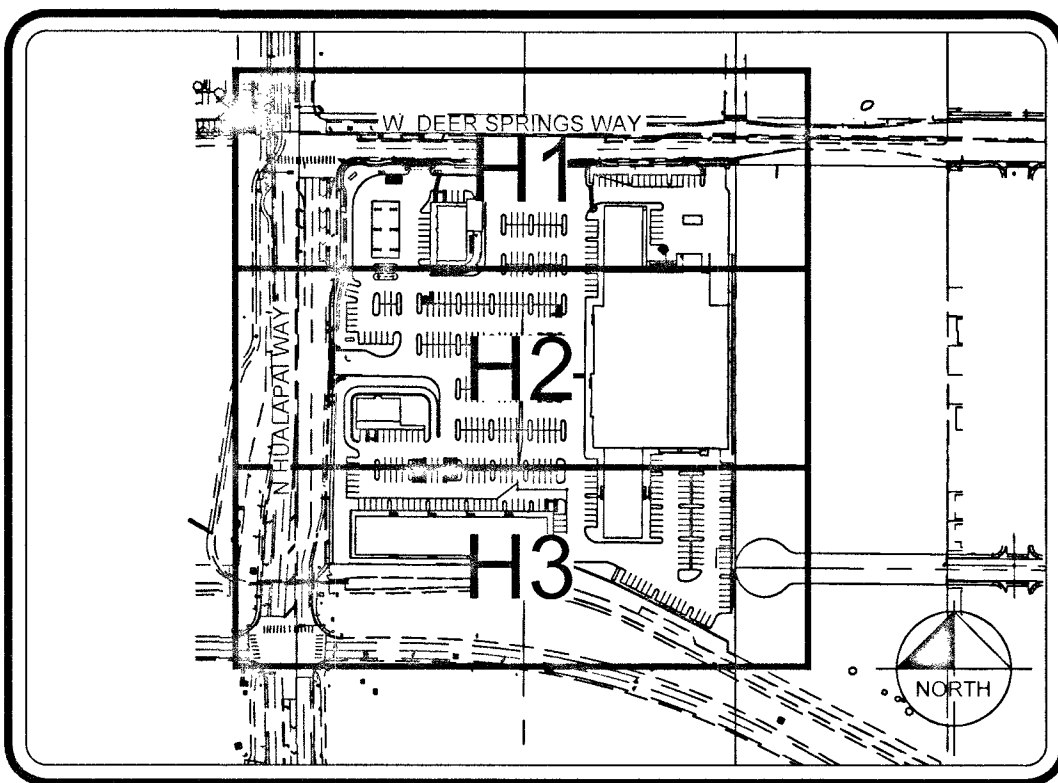
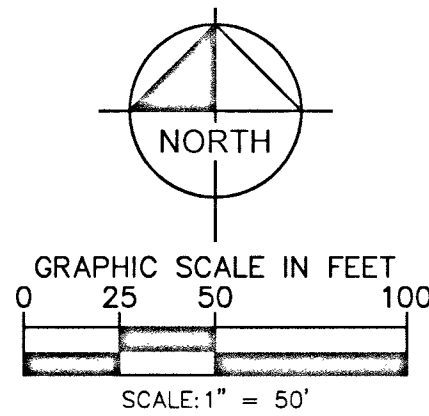
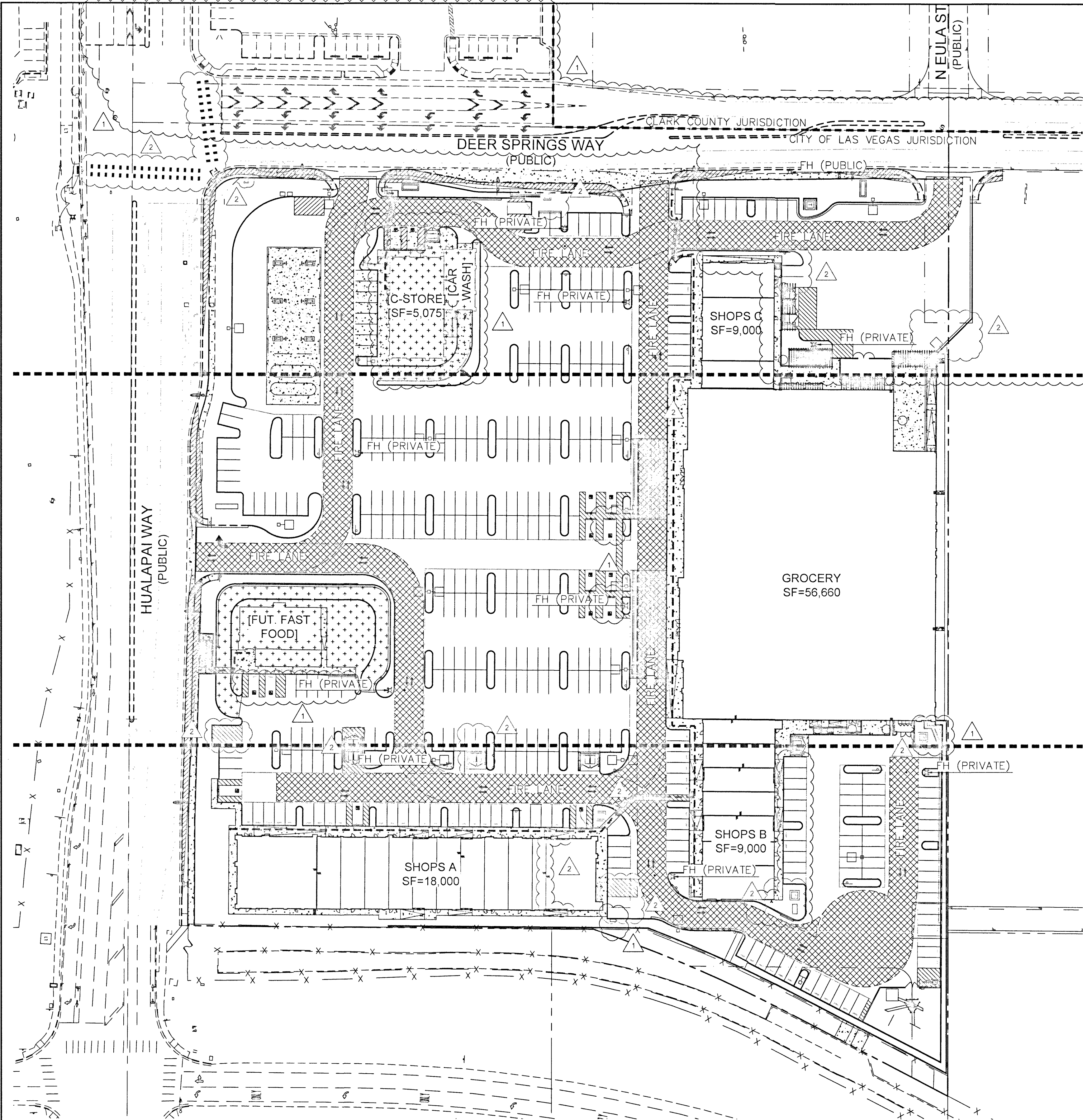
- | | | | |
|---|---------------------------|---|---------------------|
|  | PROPERTY LINE |  | SCARP |
|  | STREET CENTERLINE |  | SLOPE |
|  | RETAINING WALL | | |
|  | BUILDING | | |
|  | EXISTING CONTOUR |  | FLOW LINE |
|  | CONTOUR |  | EASEMENT LINE |
|  | CURB & GUTTER |  | HANDICAP PARKING |
|  | CURB | FS | FINISHED SURFACE |
|  | EXISTING EDGE OF PAVEMENT | CF | CURB FACE |
| | | TC | CURB BACK |
|  | EXISTING CURB & GUTTER | EP | EDGE OF PAVEMENT |
|  | EXISTING CURB | TG | TOP OF GRATE |
|  | EXISTING BUILDING |  | GRADE |
|  | CONSTRUCTION NOTE | | EXISTING GRADE |
|  | CUT FILL TRANSITION |  | EXPOSED FOOTING |
|  | SAWCUT LIMITS |  | BLDG WALL TO RETAIN |

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, DS 4902.

TREASEA WOLF, P.E. No. 17879

B-3-18
ATE

CLV#: 107Y5072 L17-00759



KEY MAP
N.T.S.

FIRE LANE LEGEND

SEE SHEET C1 FOR FULL ABBREVIATIONS AND MASTER LEGEND.

- INDICATES RED PAINTED CURB WITH "NO PARKING FIRE LANE" PAINTED EVERY 50 FT. PER LVFR GUIDELINES
- ADA ROUTE TO PUBLIC R/W
- INDICATED LOCATION OF FIRE LANE SIGNS TO BE PLACED AT ENTRANCES. FIRE LANE SIGNS SHALL CONFORM TO LVFR GUIDELINES (SEE DETAIL THIS SHEET)
- PROPOSED BLUE REFLECTIVE PAVEMENT MARKER
- INDICATES FIRE HYDRANT
- INDICATES EXISTING FIRE HYDRANT
- INDICATES FIRE LANE FLOW DIRECTION
- INDICATES FDC
- SIGHT VISIBILITY ZONE
- INDICATES NEW FIRE LANE LIMITS
- TURNING RADIUS (TYPICAL)

CITY OF LAS VEGAS FIRE DEPARTMENT

FIRE FLOW REQUIREMENT IS 2,500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:

	SHOPS A	SHOPS B	SHOPS C	C--STORE	FAST FOOD	GROCERY STORE
REQ'D FIRE FLOW	1,875	1,500	1,500	2,000	1,500	2,500
SQUARE FOOTAGE	18,000	900	6,280	5,075	2,400	56,660
LARGEST AREA BETWEEN AREA SEPARATION WALLS	N/A	N/A	N/A	N/A	N/A	N/A
HEIGHT	38	32	32	31	28	—
TYPE OF CONSTRUCTION	V-B	V-B	V-B	V-B	V-B	IIIB
SPRINKLER SYSTEM	YES	YES	YES	NO	NO	YES
OCCUPANCY	A2/M	A2/M	A2/M	M	A2	—
NO. OF STORIES	1	1	1	1	1	1
HIGH PILED STORAGE	NO	NO	NO	NO	NO	YES
CHEMICAL ADDITIVES	NO	NO	NO	N/A	N/A	NO

PAVEMENT MARKERS

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS OR FIRE LANE.

- ON ROADWAYS WITH NO PARKING PERMITTED ON THE HYDRANT SIDE EIGHT (8) FEET FROM THE FACE OF THE CURB ON THE HYDRANT SIDE.
- ON ROADWAYS WITH PARKING PERMITTED ON THE HYDRANT SIDE SIXTEEN (16) FEET FROM THE FACES OF THE CURB ON THE HYDRANT SIDE.

ACCESSIBILITY NOTES:

- MAXIMUM SLOPE ON THE ACCESSIBLE ROUTE IS 5.0% IN THE DIRECTION OF TRAVEL, 2.0% CROSS SLOPE.
- MAXIMUM SLOPE IN ACCESSIBLE PARKING STALL LOADING AISLES IN 2.0% IN ANY DIRECTION.
- PROVIDE ACCESSIBLE PARKING STALL SIGNAGE FOR STANDARD AND VAN ACCESSIBLE STALLS PER NRS 484.408.
- ACCESSIBLE STALLS SHALL BE 9'-0" WIDE X 20'-0" LONG (18'-0" WITH PERMITTED OVERHANG). ACCESSIBLE STALL LOADING AISLES ARE 5'-0" WIDE X THE ENTIRE LENGTH OF THE PARKING STALL (8'-0" WIDE FOR VAN ACCESSIBLE SPACES).

NOTES

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, TREES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES 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 THE TOP OF CURB.

LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

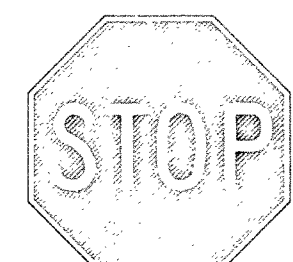
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK

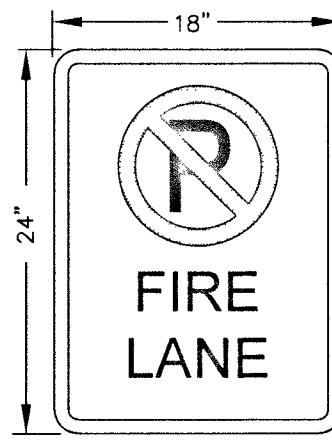
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)

BASIS OF BEARINGS

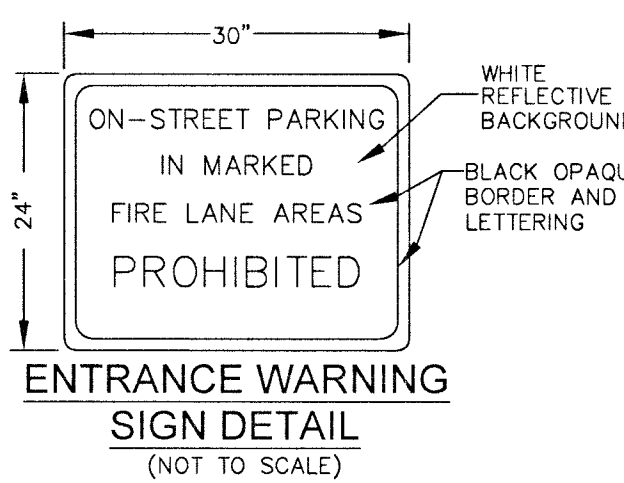
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, W.D.M., COUNTY OF CLARK, STATE OF NEVADA



R1-1 STOP SIGN
(NOT TO SCALE)



ON-SITE FIRE SIGN DETAIL
(NOT TO SCALE)



ACCESSIBLE PARKING

VAN ACCESSIBLE

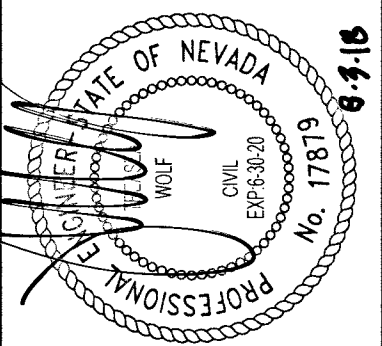
ACCESSIBLE STALL SIGN
(NOT TO SCALE)

70 SQUARE INCH MIN. PAINTED METAL SIGN AT PARKING SPACE WITH WHITE INTERNATIONAL SYMBOL OF ACCESSIBILITY ON BLUE BACKGROUND

POLE MOUNTED VAN ACCESSIBLE SIGN TO DESIGNATE THOSE SPACES THAT ARE USE-ABLE BY VANS WITH WHEELCHAIR LIFTS

No.	REVISIONS	DATE	BY
2	UPDATED PARKING & LVS. MOVED LOADING ZONES, TE, FLUME, TRANSFORMER & LIGHT	8-20-18	SS
1	UPDATED DRIVEWAY LOCATION, PROP		
	MAILBOXES, ADA PARKING & NORTH ADJ		
	PROPERTY LINE WORK		

Kimley»Horn
© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-862-3600
WWW.KIMLEY-HORN.COM

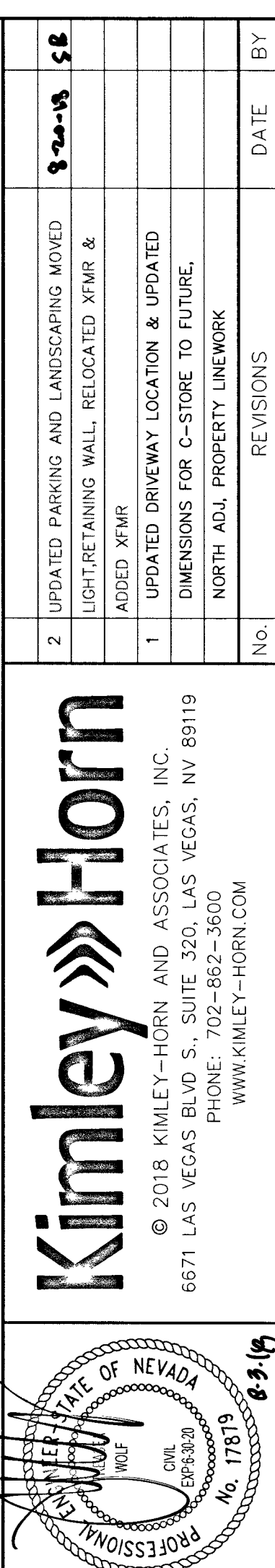


KHA PROJECT	61153.52
DATE	NOV. 9, 2017
SCALE	AS SHOWN
DESIGNED BY	JZ
DRAWN BY	JZ
CHECKED BY	TW

HORIZONTAL CONTROL &
FIRE PLAN OVERALL

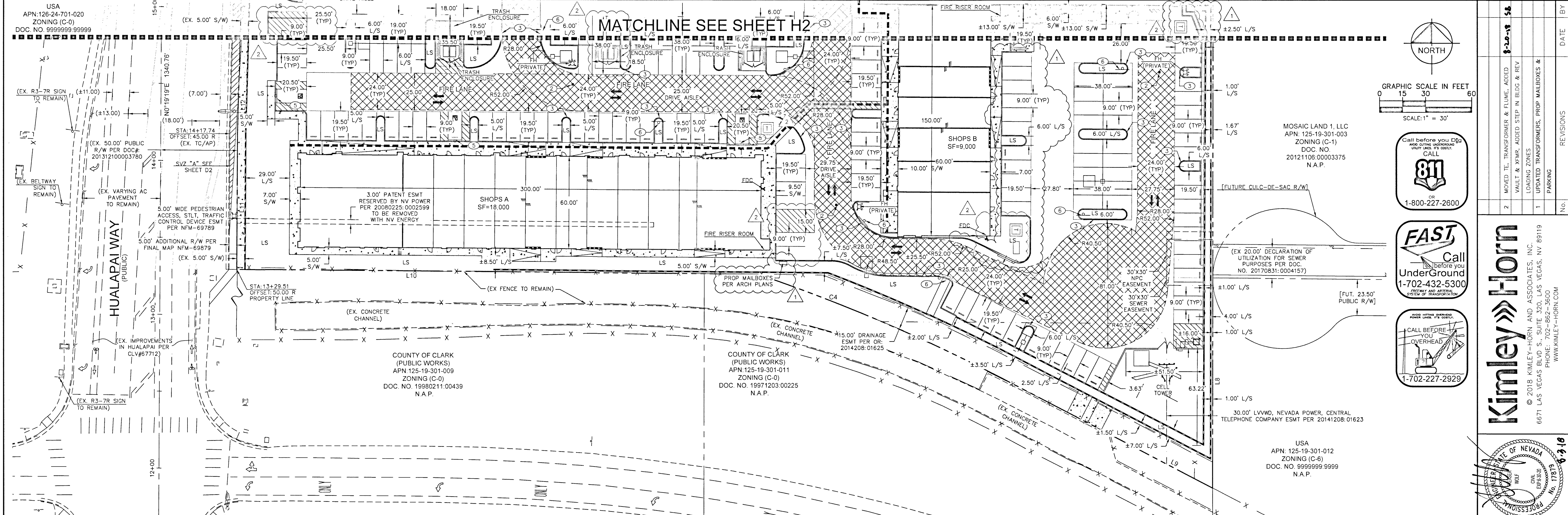
DEER SPRINGS VILLAGE
© SEC DEER SPRINGS & HUALAPAI

CLV#: 107Y5072 L17-00759



13 OF 19 SHEETS

L17-00759



PAVEMENT MARKERS

INSTALL BLUE COLORED REFLECTIVE RAISED PAVEMENT MARKERS ADJACENT TO THE FIRE HYDRANT ON ALL IMPROVED FIRE APPARATUS ACCESS ROADWAYS WITH HARD SURFACES, INCLUDING BOTH PUBLIC AND PRIVATE ROADS, STREETS OR FIRE LANE.

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NOTES

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SIGHT VISIBILITY ZONES NOTE

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LEGEND & ABBREVIATIONS

SEE COVER SHEET FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

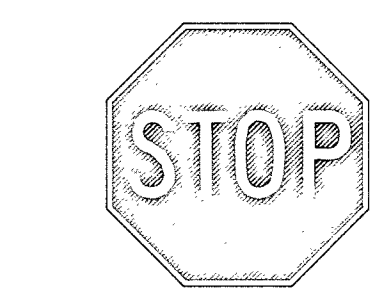
SEE COVER SHEET FOR FULL LEGAL DESCRIPTION.

BENCHMARK

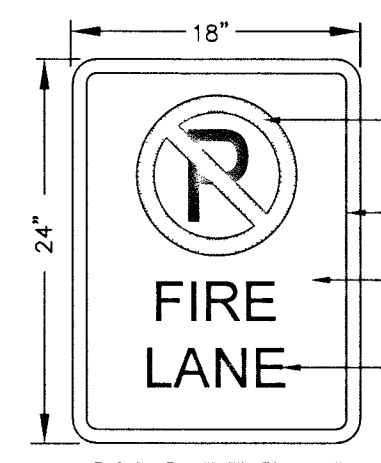
BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.179ft. (NAVD 88)

BASIS OF BEARINGS

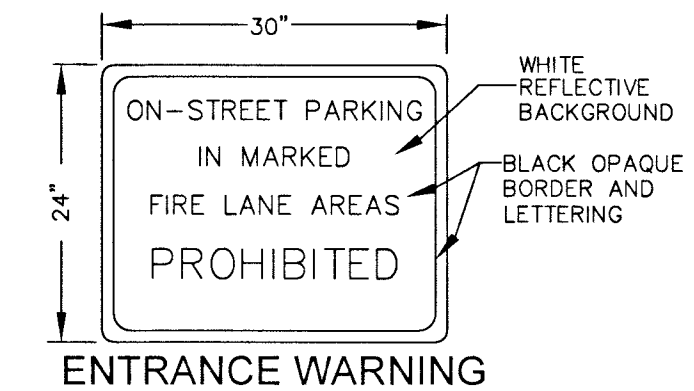
NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA



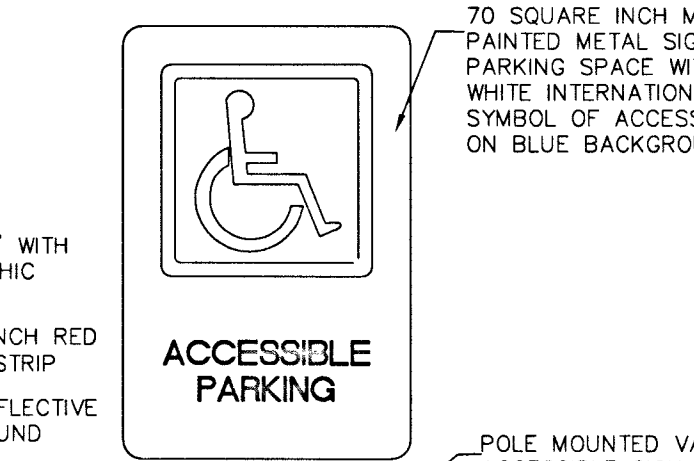
R1-1 STOP SIGN
(NOT TO SCALE)



ON-SITE FIRE SIGN DETAIL
(NOT TO SCALE)



ENTRANCE WARNING SIGN DETAIL
(NOT TO SCALE)



ACCESSIBLE PARKING



VAN ACCESSIBLE

CITY OF LAS VEGAS FIRE DEPARTMENT						
FIRE FLOW REQUIREMENT IS 2,500 GALLONS PER MINUTE AT 20 POUNDS PER SQUARE INCH RESIDUAL BASED ON:						
REQ'D FIRE FLOW	1,875	1,500	1,500	2,000	1,500	2,500
SQUARE FOOTAGE	18,000	900	6,280	5,075	2,400	56,660
LARGEST AREA BETWEEN AREA SEPARATION WALLS	N/A	N/A	N/A	N/A	N/A	N/A
HEIGHT	38	32	32	31	28	-
TYPE OF CONSTRUCTION	V-B	V-B	V-B	V-B	V-B	III-B
SPRINKLER SYSTEM	YES	YES	YES	NO	NO	YES
OCCUPANCY	A2/M	A2/M	A2/M	M	A2	-
NO. OF STORIES	1	1	1	1	1	1
HIGH PILED STORAGE	NO	NO	NO	NO	NO	YES
CHEMICAL ADDITIVES	NO	NO	NO	N/A	N/A	NO

FIRE LANE LEGEND

SEE SHEET C1 FOR FULL ABBREVIATIONS AND MASTER LEGEND.

- INDICATES RED PAINTED CURB WITH "NO PARKING FIRE LANE" PAINTED EVERY 50 FT. PER LVFR GUIDELINES
- ADA ROUTE TO PUBLIC R/W
- INDICATED LOCATION OF FIRE LANE SIGNS TO BE PLACED AT ENTRANCES. FIRE LANE SIGNS SHALL CONFORM TO LVFR GUIDELINES (SEE DETAIL THIS SHEET)
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- INDICATES FIRE HYDRANT
- INDICATES EXISTING FIRE HYDRANT
- INDICATES FIRE LANE FLOW DIRECTION
- INDICATES FDC
- SIGHT VISIBILITY ZONE
- INDICATES NEW FIRE LANE LIMITS
- TURNING RADIUS (TYPICAL)

- ON-SITE SIGNAGE NOTES**
- INSTALL BLUE REFLECTIVE PAVEMENT MARKER IN THE FIRE LANE ADJACENT TO FIRE HYDRANT
 - PAIN CURB RED & STENCIL IN WHITE PAINT "FIRE LANE - NO PARKING"
 - INSTALL ADA SIGN PER DETAIL THIS SHEET (OR EQUIVALENT)
 - INSTALL FIRE LANE SIGNS PER CLV STANDARDS, DETAIL ON H SHEETS

LINE TABLE		
LINE	LENGTH	BEARING
L1	141.18	N89°27'56.45"W
L2	51.98	N79°15'38.89"W
L3	100.00	N89°27'56.45"W
L4	73.77	N81°27'04.99"E
L5	150.99	N89°15'40.64"E
L8	136.43	N0°04'08.34"E
L9	153.21	S62°30'17.00"E
L10	339.21	N89°32'44.04"W
L11	88.23	N0°19'19.00"E
L13	87.55	N0°19'19.00"E
L14	136.93	N0°19'19.00"E

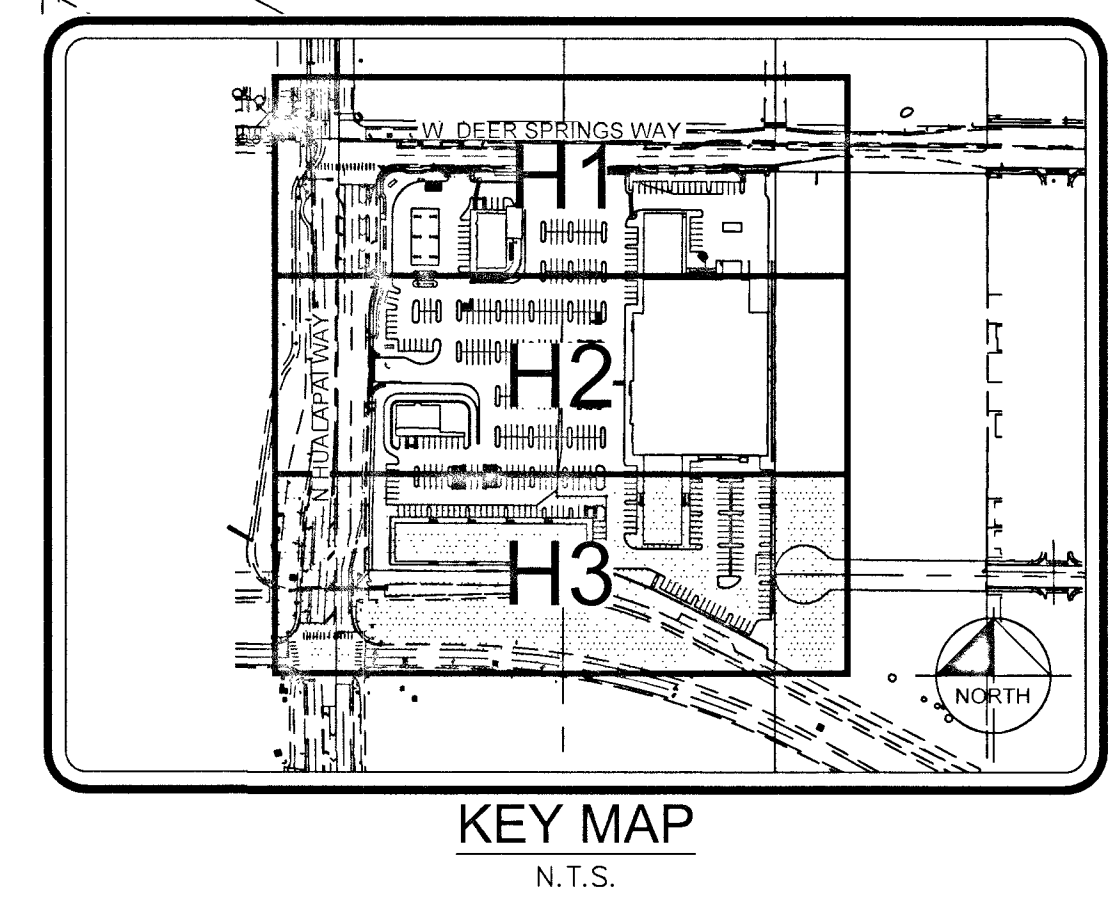
CURVE TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
C1	25.00'	39.36'	90°12'45"	25.09'
C2	17.00'	3.03'	10°12'18"	1.52'
C3	33.00'	5.88'	10°12'18"	2.95'
C4	1120.00'	174.40'	8°55'19"	87.38'
C5	95.00'	30.17'	18°11'42"	15.21'
C6	105.00'	33.34'	18°11'42"	16.81'

**CITY OF LAS VEGAS
FIRE DEPARTMENT APPROVAL**

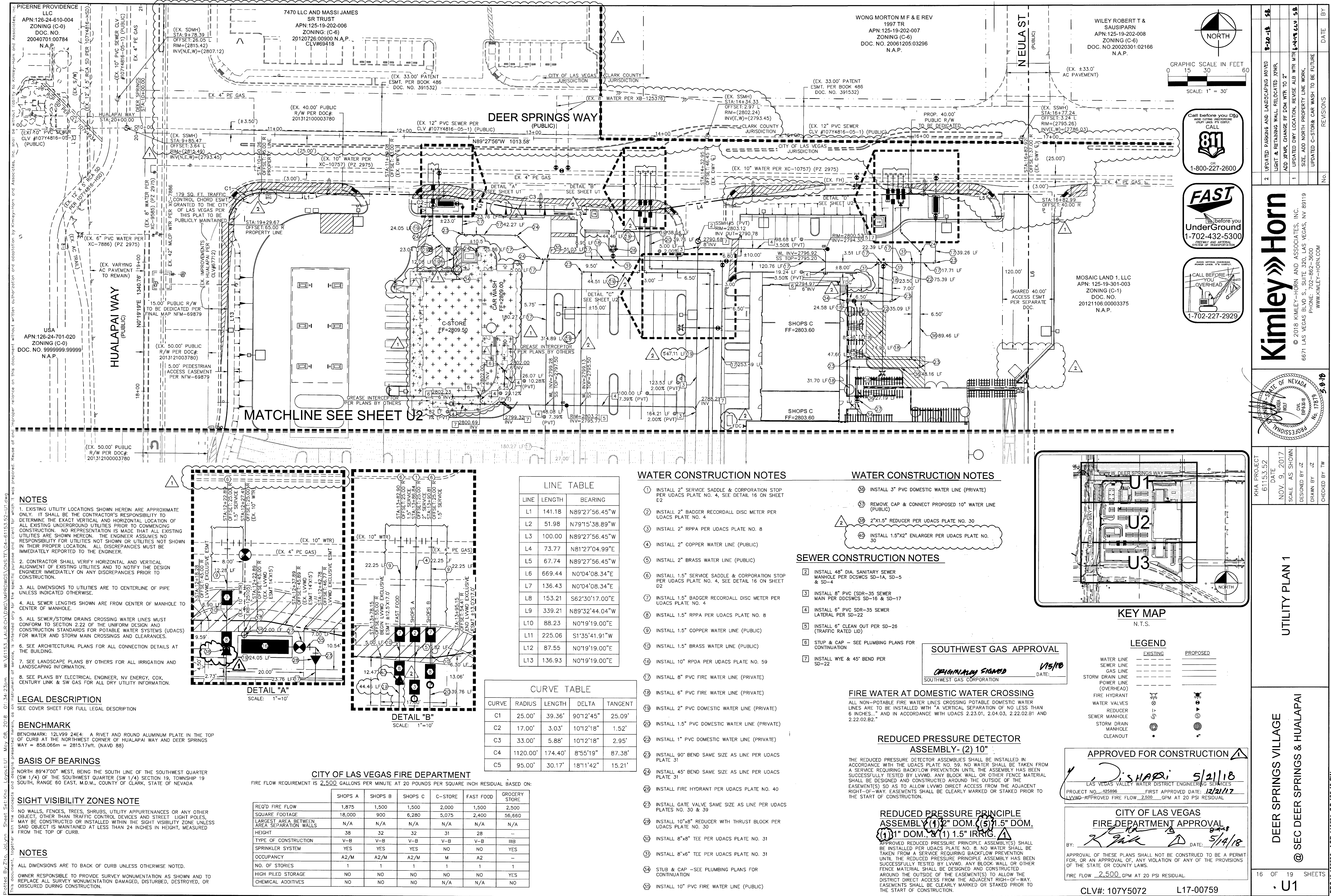
BY: DATE: 8-9-18

APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR, OR AN APPROVAL OF, ANY VIOLATION OF ANY OF THE PROVISIONS OF THE STATE OR COUNTY LAWS.

FIRE FLOW 2,500 GPM AT 20 PSI RESIDUAL.



USA APN:125-24-701-020 ZONING (C-1) DOC. NO. 999999999999999	2	MOVED TO TRANSFORMER & FLAME, ADDED VAULT & XFM, ADDED STEP IN BLDG & REV LOADING ZONES 1	UPDATED TRANSFORMERS, PROP MAILEDXES & PARKING	DATE	BY
Kimley»Horn © 2018 KIMLEY-HORN AND ASSOCIATES, INC. 6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119 PHONE: 702-862-3600 WWW.KIMLEY-HORN.COM					
HORIZONTAL CONTROL & FIRE PLAN 3					
DEER SPRINGS VILLAGE @ SEC DEER SPRINGS & HUALAPAI					
15 OF 19 SHEETS					
H3					



NOTES

1. EXISTING UTILITY LOCATIONS SHOWN HEREIN ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION. ALL DISCREPANCIES MUST BE IMMEDIATELY REPORTED TO THE ENGINEER.

2. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES AND TO NOTIFY THE DESIGN ENGINEER IMMEDIATELY ON ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

3. ALL DIMENSIONS TO UTILITIES ARE TO CENTERLINE OF PIPE UNLESS INDICATED OTHERWISE.

4. ALL SEWER LENGTHS SHOWN ARE FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.

5. 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.

6. SEE ARCHITECTURAL PLANS FOR ALL CONNECTION DETAILS AT THE BUILDING.

7. SEE LANDSCAPE PLANS BY OTHERS FOR ALL IRRIGATION AND LANDSCAPING INFORMATION.

8. SEE PLANS BY ELECTRICAL ENGINEER, NV ENERGY, COX, CENTURY LINK & SW GAS FOR ALL DRY UTILITY INFORMATION.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION

BENCHMARK

BENCHMARK: 12LV99 24E4: A RIVET AND ROUND ALUMINUM PLATE IN THE TOP OF CURB AT THE NORTHWEST CORNER OF HUALAPAI WAY AND DEER SPRINGS WAY = 858.066m = 2815.17ft. (NAVD 88)

BASIS OF BEARINGS

NORTH 89°47'00" WEST, BEING THE SOUTH LINE OF THE SOUTHWEST QUARTER (SW 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) SECTION 19, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., COUNTY OF CLARK, STATE OF NEVADA

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HEIGHT	38	32	32	31	28	-
TYPE OF CONSTRUCTION	V-B	V-B	V-B	V-B	V-B	III-B
SPRINKLER SYSTEM	YES	YES	YES	NO	NO	YES
OCCUPANCY	A2/M	A2/M	A2/M	M	A2	-
NO. OF STORIES	1	1	1	1	1	1
HIGH PILED STORAGE	NO	NO	NO	NO	NO	YES
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LINE TABLE		
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L8	153.21	S62°30'17.00"E
L9	339.21	N89°32'44.04"W
L10	88.23	N0°19'19.00"E
L11	225.06	S1°35'41.91"W
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C2	17.00'	3.03'	10°12'18"	1.52'
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C4	1120.00'	174.40'	8°55'19"	87.38'
C5	95.00'	30.17'	18°11'42"	15.21'

WATER CONSTRUCTION NOTES

- INSTALL 2" SERVICE SADDLE & CORPORATION STOP PER UDACS PLATE NO. 4, SEE DETAIL 16 ON SHEET D2
- INSTALL 2" BADGER RECORDALL DISC METER PER UDACS PLATE NO. 4
- INSTALL 2" RPPA PER UDACS PLATE NO. 8
- INSTALL 2" COPPER WATER LINE (PUBLIC)
- INSTALL 2" BRASS WATER LINE (PUBLIC)
- INSTALL 1.5" SERVICE SADDLE & CORPORATION STOP PER UDACS PLATE NO. 4, SEE DETAIL 16 ON SHEET D2
- INSTALL 1.5" BADGER RECORDALL DISC METER PER UDACS PLATE NO. 4
- INSTALL 1.5" RPPA PER UDACS PLATE NO. 8
- INSTALL 1.5" COPPER WATER LINE (PUBLIC)
- INSTALL 1.5" BRASS WATER LINE (PUBLIC)
- INSTALL 10" RPPA PER UDACS PLATE NO. 59
- INSTALL 8" PVC FIRE WATER LINE (PRIVATE)
- INSTALL 6" PVC FIRE WATER LINE (PRIVATE)
- INSTALL 2" PVC DOMESTIC WATER LINE (PRIVATE)
- INSTALL 1.5" PVC DOMESTIC WATER LINE (PRIVATE)
- INSTALL 1" PVC DOMESTIC WATER LINE (PRIVATE)
- INSTALL 90° BEND SAME SIZE AS LINE PER UDACS PLATE 31
- INSTALL 45° BEND SAME SIZE AS LINE PER UDACS PLATE 31
- INSTALL GATE VALVE SAME SIZE AS LINE PER UDACS PLATES NO. 30 & 39
- INSTALL 10"x8" REDUCER WITH THRUST BLOCK PER UDACS PLATE NO. 30
- INSTALL 8"x8" TEE PER UDACS PLATE NO. 31
- INSTALL 8"x6" TEE PER UDACS PLATE NO. 31
- STUB & CAP - SEE PLUMBING PLANS FOR CONTINUATION
- INSTALL 10" PVC FIRE WATER LINE (PUBLIC)

WATER CONSTRUCTION NOTES

- INSTALL 3" PVC DOMESTIC WATER LINE (PRIVATE)
- REMOVE CAP & CONNECT PROPOSED 10" WATER LINE (PUBLIC)
- 2"x1.5" REDUCER PER UDACS PLATE NO. 30
- INSTALL 1.5"x2" ENLARGER PER UDACS PLATE NO. 30

SEWER CONSTRUCTION NOTES

- INSTALL 48" DIA. SANITARY SEWER MANHOLE PER DCSWS SD-1A, SD-5 & SD-4
- INSTALL 8" PVC (SDR-35 SEWER MAIN PER DCSWS SD-16 & SD-17
- INSTALL 6" PVC SDR-35 SEWER LATERAL PER SD-22
- INSTALL 6" CLEAN OUT PER SD-26 (TRAFFIC RATED LID)
- STUB & CAP - SEE PLUMBING PLANS FOR CONTINUATION
- INSTALL WYE & 45° BEND PER SD-22

FIRE WATER AT DOMESTIC WATER CROSSING

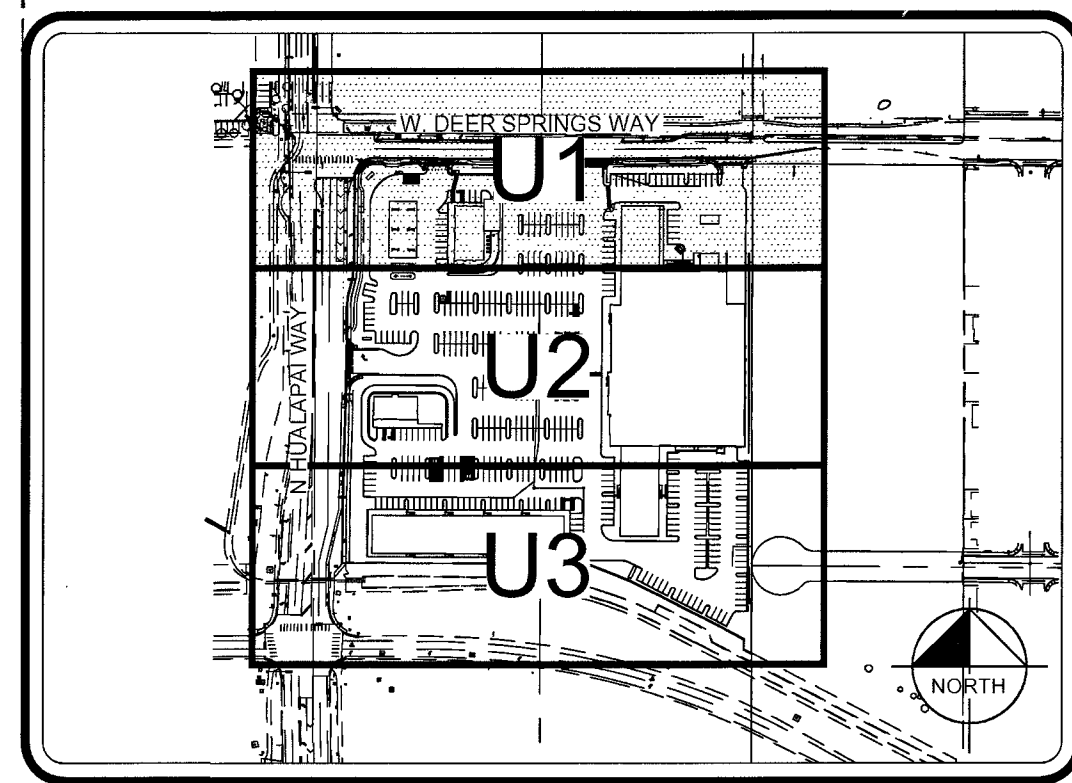
ALL NON-POTABLE FIRE WATER LINES CROSSING POTABLE DOMESTIC WATER LINES ARE TO BE INSTALLED WITH "A" VERTICAL SEPARATION OF NO LESS THAN 6 INCHES..." AND IN ACCORDANCE WITH UDACS 2.23.01, 2.04.03, 2.22.02.B1 AND 2.22.02.B2.

REDUCED PRESSURE DETECTOR ASSEMBLY - (2) 10"

THE REDUCED PRESSURE DETECTOR ASSEMBLYS SHALL BE INSTALLED IN ACCORDANCE WITH THE UDACS PLATE NO. 59. NO WATER SHALL BE TAKEN FROM A SERVICE REQUIRING BACKFLOW PREVENTION UNTIL THE ASSEMBLY HAS BEEN SUCCESSFULLY TESTED BY LVWD. ANY BLOCK WALL OR OTHER FENCE MATERIAL SHALL BE DESIGNED AND CONSTRUCTED AROUND THE OUTSIDE OF THE EASEMENT(S) SO AS TO ALLOW LVWD DIRECT ACCESS FROM THE ADJACENT RIGHT-OF-WAY. EASEMENTS SHALL BE CLEARLY MARKED OR STAKED PRIOR TO THE START OF CONSTRUCTION.

REDUCED PRESSURE PRINCIPLE ASSEMBLY (1) 2" DOM. (5) 1.5" DOM. (1) 1" DOM. & (1) 1.5" IRRIG. A

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



KEY MAP

N.T.S.

LEGEND

	EXISTING	PROPOSED
WATER LINE	---	---
SEWER LINE	---	---
GAS LINE	---	---
STORM DRAIN LINE	---	---
POWER LINE (OVERHEAD)	---	---
FIRE HYDRANT	---	---
WATER VALVES	---	---
REDUCER	---	---
SEWER MANHOLE	---	---
STORM DRAIN MANHOLE	---	---
CLEANOUT	---	---

APPROVED FOR CONSTRUCTION

PROJECT NO. 225866 FIRST APPROVED DATE: 12/21/17
LVWD-APPROVED FIRE FLOW: 2,500 GPM AT 20 PSI RESIDUAL

CITY OF LAS VEGAS FIRE DEPARTMENT APPROVAL

BY: [Signature] DATE: 5/14/18

FIRE FLOW 2,500 GPM AT 20 PSI RESIDUAL

CLV#: 107Y5072

L17-00759

2 UPDATED PARKING AND LANDSCAPING MOVED LIGHT & RETAINING WALL, RELOCATED XFER. ADD XFER. CHANGE FF DOM WTR TO 2"

1 ADD NORTH LOCATION, REVISE ALB WTR MTR. SIZE, ADD WTR PROPERTY LINE WORK. UPDATED C-STORE CAR WASH TO BE FUTURE

NO. REVISIONS DATE BY

Kimley»Horn

© 2018 KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
PHONE: 702-852-1800
WWW.KIMLEY-HORN.COM

STATE OF NEVADA
KIMLEY-HORN
PROFESSIONAL
CIVIL
EXP. 308
NO. 17818
5-18

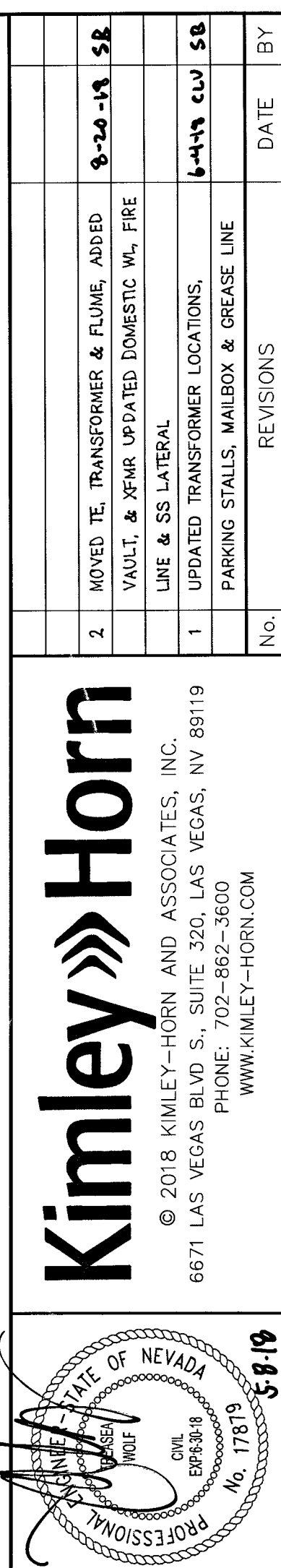
KHA PROJECT 61153.52
DATE NOV. 9, 2017
SCALE AS SHOWN
DESIGNED BY JZ
DRAWN BY JZ
CHECKED BY TW

UTILITY PLAN 1

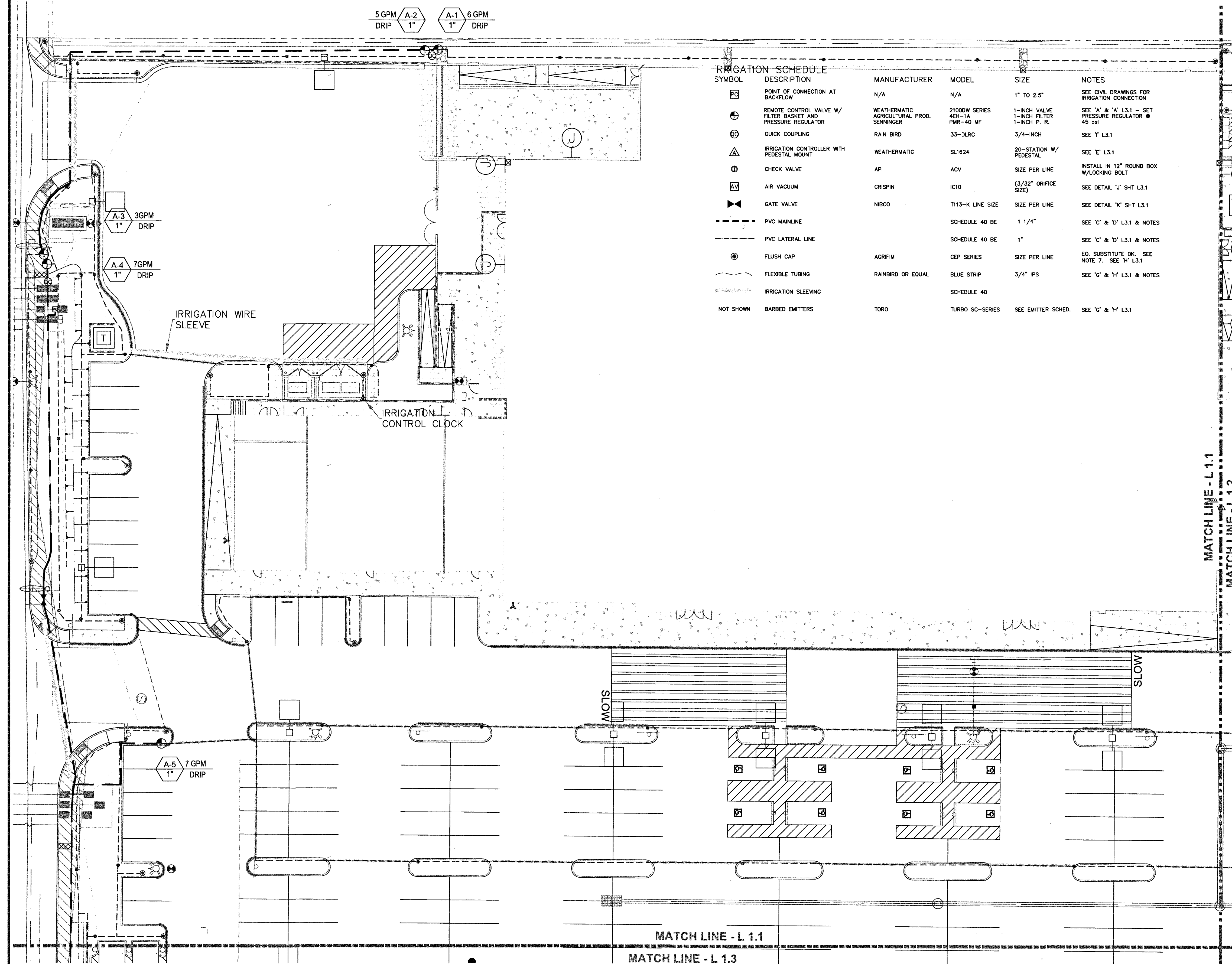
DEER SPRINGS VILLAGE
@ SEC DEER SPRINGS & HUALAPAI

16 OF 19 SHEETS
• U1

PROJ#: 725866 AGR:116521 QS:125-159W



L17-00759



SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	SIZE	NOTES
PG	POINT OF CONNECTION AT BACKFLOW	N/A	N/A	1" TO 2.5"	SEE CIVIL DRAWINGS FOR IRRIGATION CONNECTION
⊕	REMOTE CONTROL VALVE W/ FILTER BASKET AND PRESSURE REGULATOR	WEATHERMATIC AGRICULTURAL PROD. SENNINGER	2100DW SERIES 4EH-1A PMR-40 MF	1-INCH VALVE 1-INCH FILTER 1-INCH P. R.	SEE 'A' & 'A' L3.1 - SET PRESSURE REGULATOR @ 45 psi
⊗	QUICK COUPLING	RAIN BIRD	33-DLRC	3/4-INCH	SEE 'Y' L3.1
⚠	IRRIGATION CONTROLLER WITH PEDESTAL MOUNT	WEATHERMATIC	SL1624	20-STATION W/ PEDESTAL	SEE 'E' L3.1
⊕	CHECK VALVE	API	ACV	SIZE PER LINE	INSTALL IN 12" ROUND BOX W/LOCKING BOLT
⊕	AIR VACUUM	CRISPIN	IC10	(3/32" ORIFICE SIZE)	SEE DETAIL 'J' SHT L3.1
⊕	GATE VALVE	NIBCO	T113-K LINE SIZE	SIZE PER LINE	SEE DETAIL 'K' SHT L3.1
---	PVC MAINLINE		SCHEDULE 40 BE	1 1/4"	SEE 'C' & 'D' L3.1 & NOTES
---	PVC LATERAL LINE		SCHEDULE 40 BE	1"	SEE 'C' & 'D' L3.1 & NOTES
⊕	FLUSH CAP	AGRIFIM	CEP SERIES	SIZE PER LINE	E.O. SUBSTITUTE OK. SEE NOTE 7. SEE 'H' L3.1
---	FLEXIBLE TUBING	RAINBIRD OR EQUAL	BLUE STRIP	3/4" IPS	SEE 'G' & 'H' L3.1 & NOTES
---	IRRIGATION SLEEVING		SCHEDULE 40		
---	NOT SHOWN BARBED EMITTERS	TORO	TURBO SC-SERIES	SEE EMITTER SCHED.	SEE 'G' & 'H' L3.1

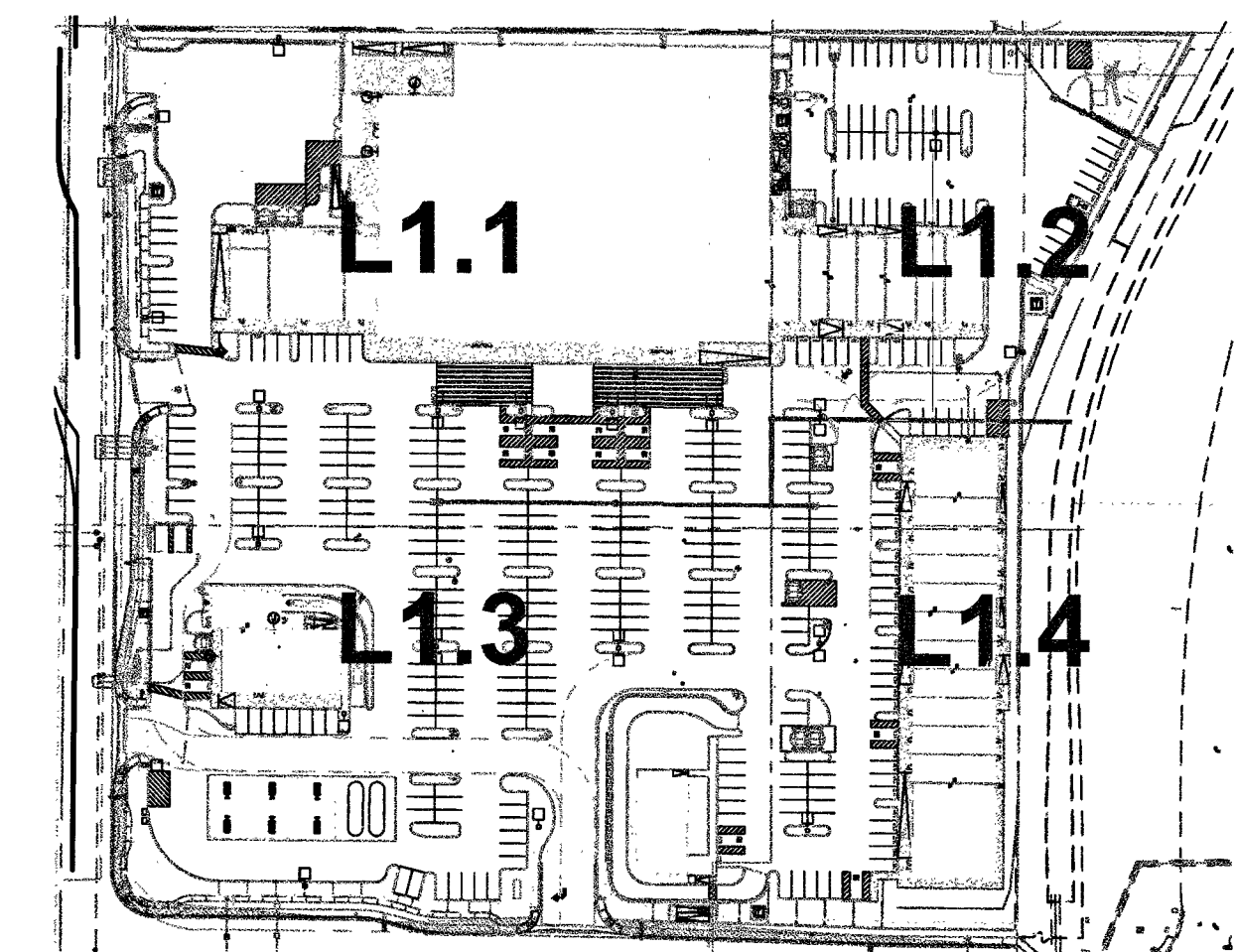
EMITTER SCHEDULE

PLANT	MFR.	MODEL	QTY.	G.P.H.
EXISTING TREES	TORO	TURBO SC PLUS-RED	VARIES	
FAN PALM	TORO	TURBO SC PLUS-RED	8-12	2.0
36" BOX	TORO	TURBO SC PLUS-RED	16-20	2.0
24" BOX	TORO	TURBO SC PLUS-RED	12-14	2.0
15 GAL SHRUB	TORO	TURBO SC PLUS-BLACK	5-7	1.0
5 GAL	TORO	TURBO SC PLUS-BLACK	3-4	1.0
1 GAL	TORO	TURBO SC PLUS-BLACK	3	1.0
BLACK FOOT DAISY	TORO	TURBO SC PLUS-BLACK	3	1.0

NOTES

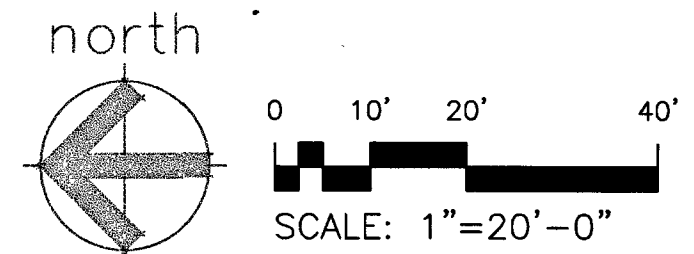
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- IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE POWER SOURCE FOR IRRIGATION CONTROLLER.
- IRRIGATION CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO STARTING WORK. PROVIDE AN ALTERNATE BID COST FOR BACKFLOW DEVICE AND ENCLOSURE, AS THE UNIT MAY ALREADY BE EXISTING OR PROVIDED BY CIVIL.
- COORDINATE IRRIGATION PLAN WITH PLANTING PLAN AND UTILITY PLANS. PLACE IRRIGATION LINES AWAY FROM OTHER UTILITIES AND TREES WHEN POSSIBLE.
- DISCREPANCIES BETWEEN THE DRAWINGS AND SITE SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION BEFORE STARTING WORK.
- ANY AND ALL MATERIAL OR EQUIPMENT SUBSTITUTIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
- EMITTERS TO THE BLACK FOOT DAISY SHALL BE (3) THREE 0.5 GPH SEE EMITTER SCHEDULE ABOVE.
- EMITTER QUANTITIES ARE SET FOR WHAT IS BEST FOR THE PLANTS. PRIOR TO INSTALLING THE CRUSHED ROCK TURN THE VALVES ON INDIVIDUALLY TO VERIFY THE WET PATTERN AROUND THE PLANTS. THE SOIL SHOULD BE WET 360-DEGREES AROUND THE PLANTS. IF DRY SPOTS OCCUR ADJUST THE EMITTER LOCATIONS OR ADD ADDITIONAL EMITTERS. THE LANDSCAPE ARCHITECT IS TO REVIEW THE WET PATTERNS PRIOR TO THE CRUSHED ROCK INSTALLATION (702) 358-8700. PROVIDE A 48 TO 72-HOUR NOTICE FOR ALL SITE VISITS.
- INSTALL FLUSH CAPS AT ALL TERMINATIONS OF BLUE STRIPE TUBING.
- INSTALL SLEEVING BASED ON THE SIZING GUIDE BELOW:

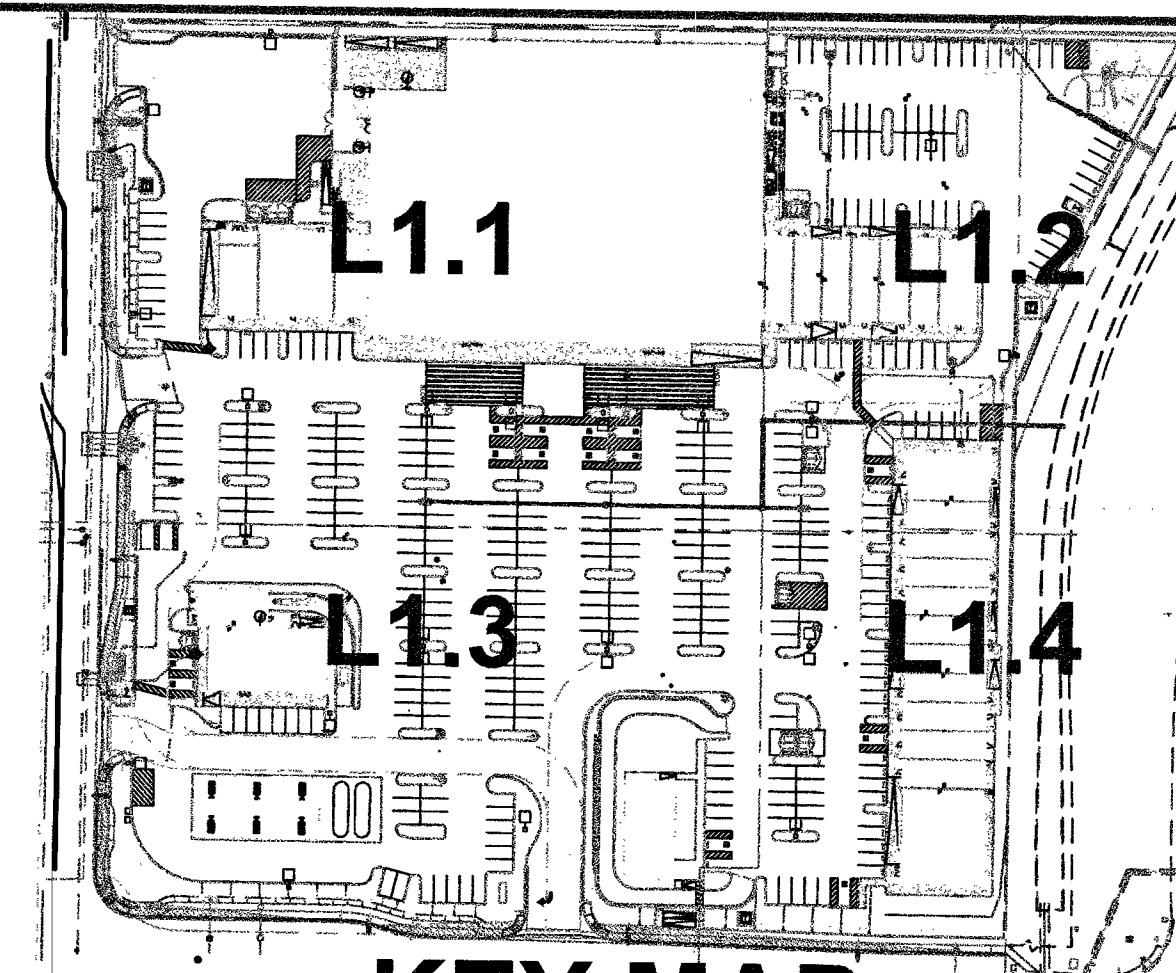
PIPE SIZE	REQUIRED SLEEVING
1" TO 2.5" PVC MAINLINE	1 - 4" SCH 40 PVC SLEEVE
1" TO 1 1/2" PVC LATERAL	1 - 4" SCH 40 PVC SLEEVE
WIRE QUANTITY	
1 - 20 CONTROL WIRES	1 - 4" SCH 40 PVC SLEEVE



KEY MAP NTS

IRRIGATION PLAN





KEY MAP

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	SIZE	NOTES
PC	POINT OF CONNECTION AT BACKFLOW	N/A	N/A	1" TO 2.5"	SEE CIVIL DRAWINGS FOR IRRIGATION CONNECTION
⊕	REMOTE CONTROL VALVE W/ FILTER BASKET AND PRESSURE REGULATOR	WEATHERMATIC AGRICULTURAL PROD. SENNINGER	2100DW SERIES 4EH-1A PMR-40 MF	1-INCH VALVE 1-INCH FILTER 1-INCH P. R.	SEE "A" & "A" L3.1 - SET PRESSURE REGULATOR @ 45 psi
⊕	QUICK COUPLING	RAIN BIRD	33-DLRC	3/4-INCH	SEE "I" L3.1
⊕	IRRIGATION CONTROLLER WITH PEDESTAL MOUNT	WEATHERMATIC	SL1624	20-STATION W/ PEDESTAL	SEE "E" L3.1
⊕	CHECK VALVE	API	ACV	SIZE PER LINE	INSTALL IN 12" ROUND BOX W/ LOCKING BOLT
AV	AIR VACUUM	CRISPIN	ICI0	(3/32" ORIFICE SIZE)	SEE DETAIL "J" SHT L3.1
⊕	GATE VALVE	NIBCO	T113-K LINE SIZE	SIZE PER LINE	SEE DETAIL "K" SHT L3.1
---	PVC MAINLINE		SCHEDULE 40 BE	1 1/4"	SEE "C" & "D" L3.1 & NOTES
---	PVC LATERAL LINE		SCHEDULE 40 BE	1"	SEE "C" & "D" L3.1 & NOTES
⊕	FLUSH CAP	AGRIFIM	CEP SERIES	SIZE PER LINE	EQ. SUBSTITUTE OK. SEE NOTE 7. SEE "H" L3.1
---	FLEXIBLE TUBING	RAINBIRD OR EQUAL	BLUE STRIP	3/4" IPS	SEE "G" & "H" L3.1 & NOTES
---	IRRIGATION SLEEVING		SCHEDULE 40		
---	NOT SHOWN BARBED EMITTERS	TORO	TURBO SC-SERIES	SEE EMITTER SCHED.	SEE "G" & "H" L3.1

EMITTER SCHEDULE

PLANT	MFR.	MODEL	QTY.	G.P.H.
EXISTING TREES	TORO	TURBO SC PLUS-RED	VARIES	2.0
FAN PALM	TORO	TURBO SC PLUS-RED	5-12	2.0
36" BOX	TORO	TURBO SC PLUS-RED	16-20	2.0
24" BOX	TORO	TURBO SC PLUS-RED	12-14	2.0
15 GAL SHRUB	TORO	TURBO SC PLUS-BLACK	5-7	1.0
5 GAL	TORO	TURBO SC PLUS-BLACK	3-4	1.0
1 GAL	TORO	TURBO SC PLUS-BLACK	3	1.0
BLACK FOOT DAISSY	TORO	TURBO SC PLUS-BLACK	3	1.0

NOTES

- THE IRRIGATION PLAN IS DRAWN FOR GRAPHIC CLARITY. WHERE PIPING AND VALVES ARE SHOWN IN CONCRETE OR PAVED AREAS, THE INTENT IS FOR THE PIPING AND VALVES TO BE PLACED IN THE ADJACENT PLANTING AREAS.
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- ANY AND ALL MATERIAL OR EQUIPMENT SUBSTITUTIONS TO BE APPROVED BY THE LANDSCAPE ARCHITECT.
- EMITTERS TO THE BLACK FOOT DAISSY SHALL BE (3) THREE. 0.5 GPH SEE EMITTER SCHEDULE ABOVE.
- EMITTER QUANTITIES ARE SET FOR WHAT IS BEST FOR THE PLANTS. PRIOR TO INSTALLING THE CRUSHED ROCK TURN THE VALVES ON INDIVIDUALLY TO VERIFY THE WET PATTERN AROUND THE PLANTS. THE SOIL SHOULD BE WET 360-DEGREES AROUND THE PLANTS. IF DRY SPOTS OCCUR ADJUST THE EMITTER LOCATIONS OR ADD ADDITIONAL EMITTERS. THE LANDSCAPE ARCHITECT IS TO REVIEW THE WET PATTERNS PRIOR TO THE CRUSHED ROCK INSTALLATION (702) 358-8700. PROVIDE A 48 TO 72-HOUR NOTICE FOR ALL SITE VISITS.
- INSTALL FLUSH CAPS AT ALL TERMINATIONS OF BLUE STRIPE TUBING.
- INSTALL SLEEVING BASED ON THE SIZING GUIDE BELOW:

PIPE SIZE

1" TO 2.5" PVC MAINLINE	1 - 4" SCH 40 PVC SLEEVE
1" TO 1 1/2" PVC LATERAL	1 - 4" SCH 40 PVC SLEEVE

WIRE QUANTITY

1 - 20 CONTROL WIRES	1 - 4" SCH 40 PVC SLEEVE
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REQUIRED SLEEVING

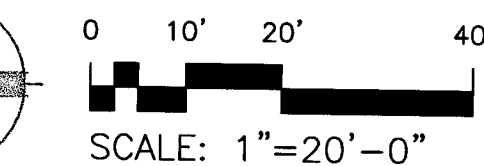
1" TO 2.5" PVC MAINLINE	1 - 4" SCH 40 PVC SLEEVE
1" TO 1 1/2" PVC LATERAL	1 - 4" SCH 40 PVC SLEEVE

WIRE QUANTITY

1 - 20 CONTROL WIRES	1 - 4" SCH 40 PVC SLEEVE
----------------------	--------------------------

IRRIGATION PLAN

north



NADEL

NADEL NEVADA INC

175 E. WARM SPRINGS ROAD
SUITE 100
LAS VEGAS, NV 89119
T. 702.896.2000
F. 702.896.7170
WWW.NADELARC.COM

PROFESSIONAL STAMP(S):



HILL CLARK
& ASSOCIATES
LANDSCAPE ARCHITECTURE

94 Megan Drive
Henderson, NV 89074
P: (702) 358-8700

CLIENT:

DEER SPRINGS
VILLAGE, LLC

10655 PARK RUN DRIVE #160
LAS VEGAS, NV 89144

CLIENT PROJECT No: 07-05-2016

PROJECT:

DEER SPRINGS
VILLAGE

6750 N HUALAPAI WAY
LAS VEGAS, NV 89149

PUBLIC AGENCY SUBMITTAL: N/A
ISSUED FOR BIDDING: N/A
ISSUED FOR CONSTRUCTION: N/A

REVISIONS:
ISSUE DESCRIPTION: ISSUE
NO.: DATE:

NADEL PROJECT No: 10061

PROJECT DATE: 07-05-2017

DRAWING TITLE:

IRRIGATION PLAN

L17-00759
107X5073

L1.3



DEER SPRINGS
VILLAGE, LLC

10655 PARK RUN DRIVE #160
LAS VEGAS, NV 89144

CLIENT PROJECT No: 07-05-2016

DEER SPRINGS
VILLAGE

6750 N HUALAPAI WAY
LAS VEGAS, NV 89149

PUBLIC AGENCY SUBMITTAL: N/A
ISSUED FOR BIDDING: N/A
ISSUED FOR CONSTRUCTION: N/A

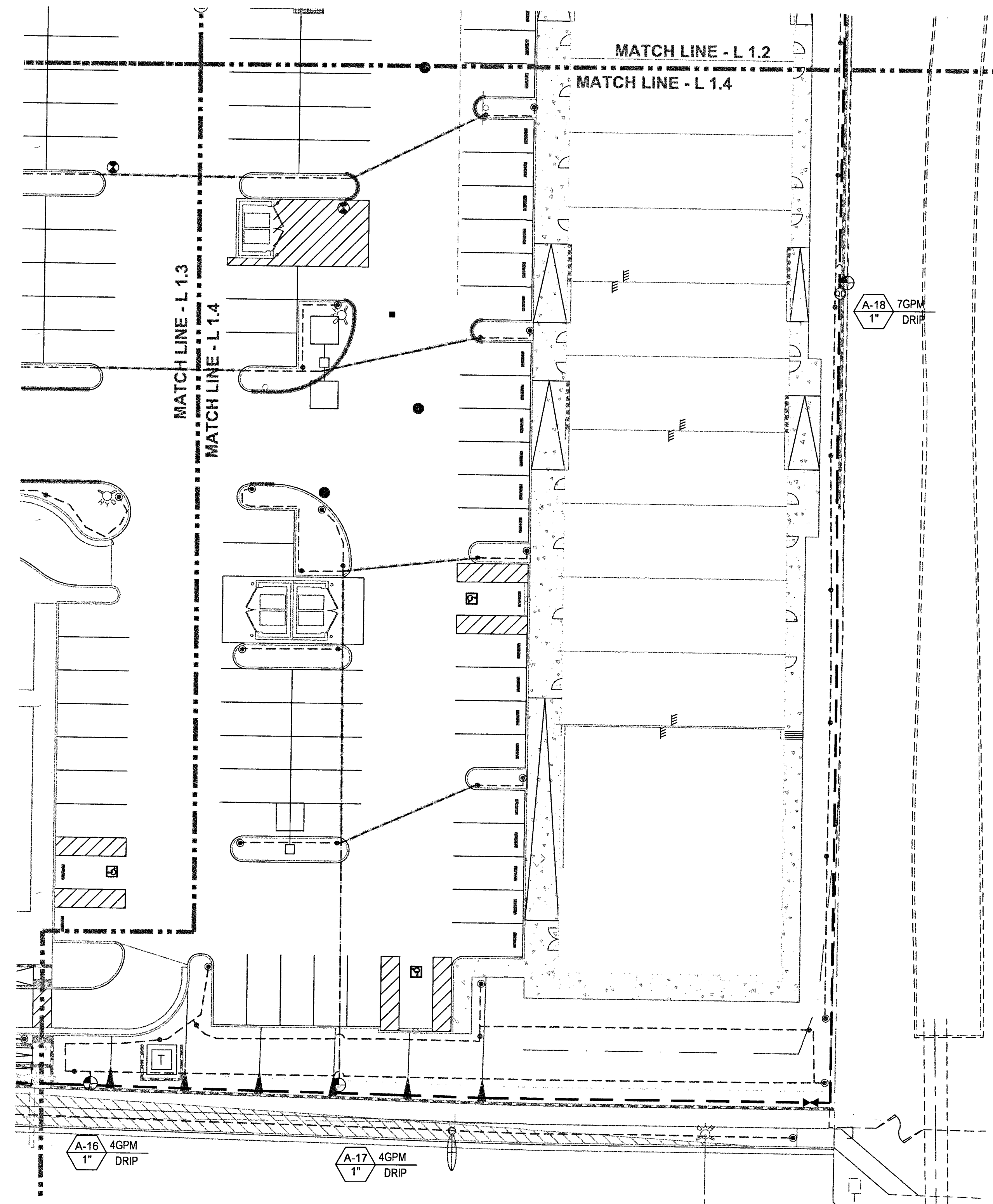
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PROJECT DATE: 07-05-2017

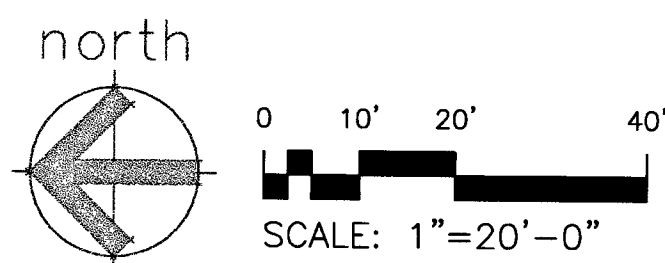
IRRIGATION
PLAN

L11-00759
107X5072

L1.4



IRRIGATION PLAN



IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	SIZE	NOTES
PC	POINT OF CONNECTION AT BACKFLOW	N/A	N/A	1" TO 2.5"	SEE CIVIL DRAWINGS FOR IRRIGATION CONNECTION
⊕	REMOTE CONTROL VALVE W/ FILTER BASKET AND PRESSURE REGULATOR	WEATHERMATIC AGRICULTURAL PROD. SENNINGER	21000W SERIES 421-1A PMR-40 MF	1-INCH VALVE 1-INCH FILTER 1-INCH P. R.	SEE 'A' & 'A' L3.1 - SET PRESSURE REGULATOR @ 45 psi
⊕	QUICK COUPLING	RAIN BIRD	33-DLRC	3/4-INCH	SEE 'Y' L3.1
⊕	IRRIGATION CONTROLLER WITH PEDESTAL MOUNT	WEATHERMATIC	SL1624	20-STATION W/ PEDESTAL	SEE 'E' L3.1
⊕	CHECK VALVE	API	ACV	SIZE PER LINE	INSTALL IN 12" ROUND BOX W/LOCKING BOLT
AV	AIR VACUUM	CRISPIN	IC10	(3/32" ORIFICE SIZE)	SEE DETAIL 'J' SHT L3.1
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---	IRRIGATION SLEEVING		SCHEDULE 40		
NOT SHOWN	BARBED EMITTERS	TORO	TURBO SC-SERIES	SEE EMITTER SCHED.	SEE 'G' & 'H' L3.1

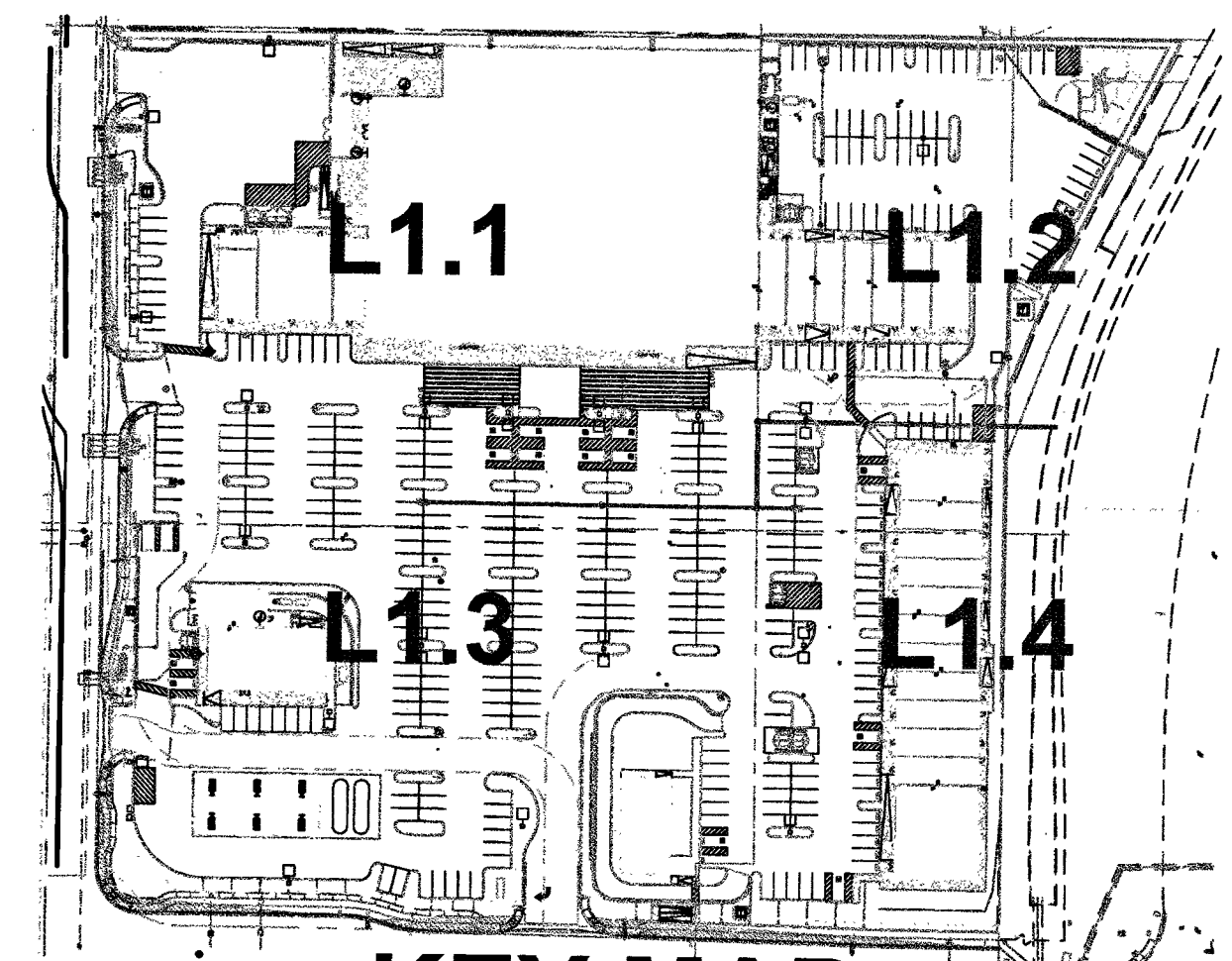
EMITTER SCHEDULE

PLANT	MFR.	MODEL	QTY.	G.P.H.
EXISTING TREES	TORO	TURBO SC PLUS-RED	VARIES	
FAN PALM	TORO	TURBO SC PLUS-RED	8-12	2.0
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BLACK FOOT DAISY	TORO	TURBO SC PLUS-BLACK	3	1.0

NOTES

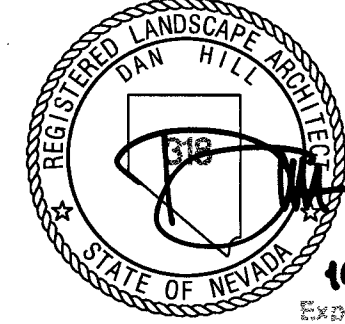
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1" TO 1 1/2" PVC LATERAL	1 - 4" SCH 40 PVC SLEEVE
WIRE QUANTITY	
1 - 20 CONTROL WIRES	1 - 4" SCH 40 PVC SLEEVE



KEY MAP

NTS



DEER SPRINGS
VILLAGE, LLC

10655 PARK RUN DRIVE #160
LAS VEGAS, NV 89144

CLIENT PROJECT No: 07-05-2016

DEER SPRINGS
VILLAGE

6750 N HUALAPAI WAY
LAS VEGAS, NV 89149

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ISSUED FOR BIDDING: N/A
ISSUED FOR CONSTRUCTION: N/A

REVISIONS:
ISSUE NO.: DESCRIPTION: ISSUE DATE:

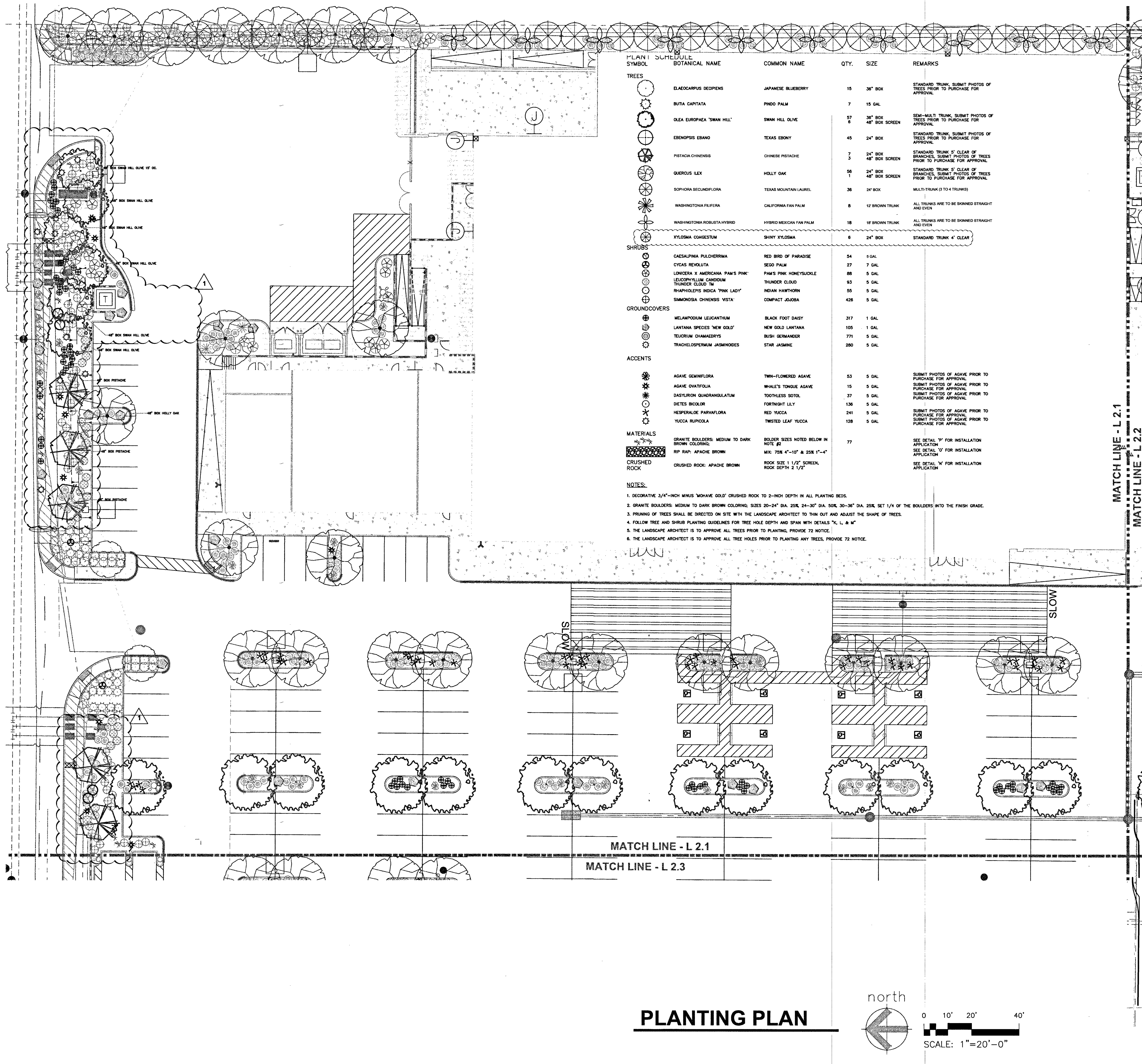
1 Plan Check Comments 08-18-2017

NADEL PROJECT No: 16061
PROJECT DATE: 07-05-2017

PLANTING
PLAN

L17-00759
10745072

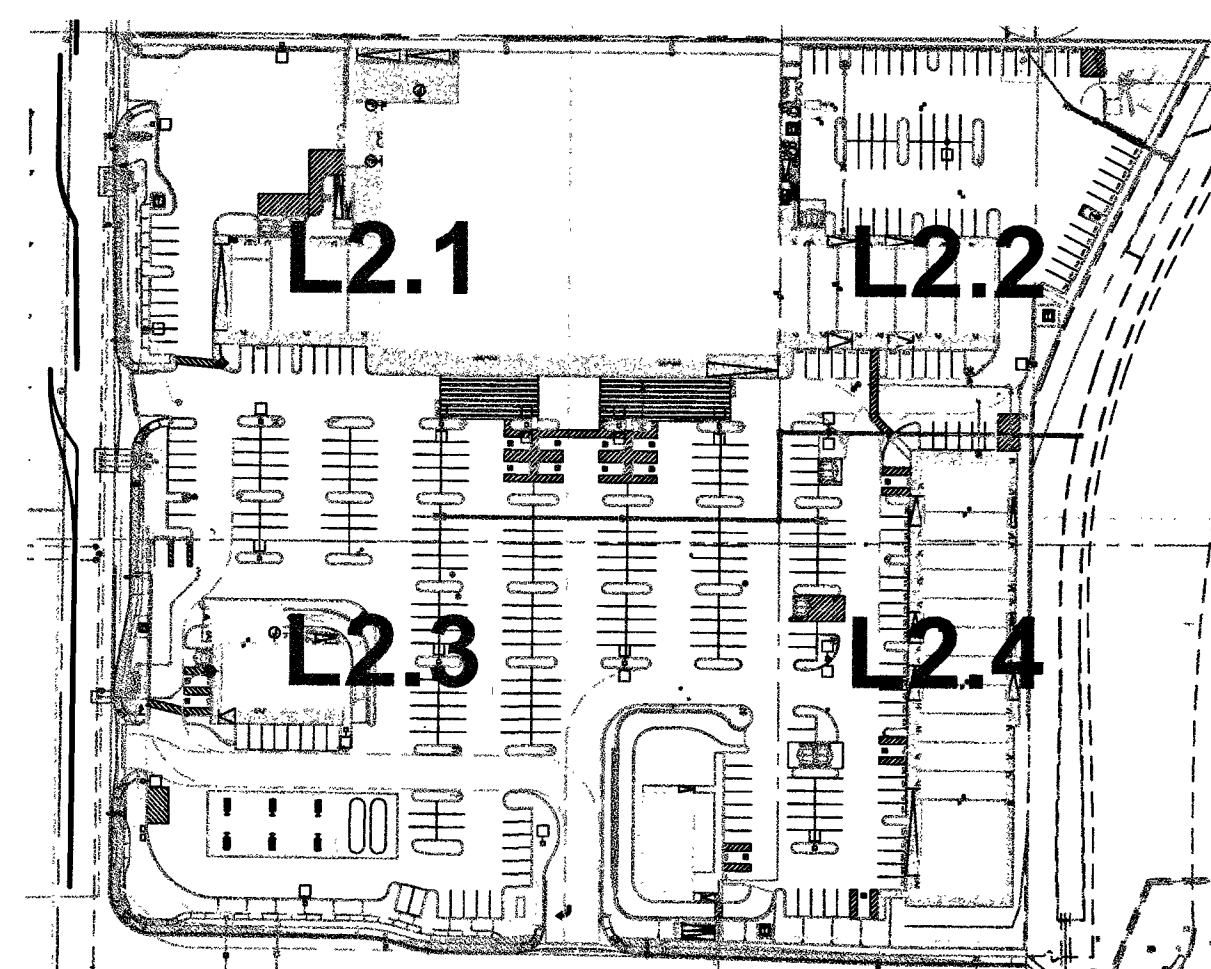
L2.1



PLANTING PLAN



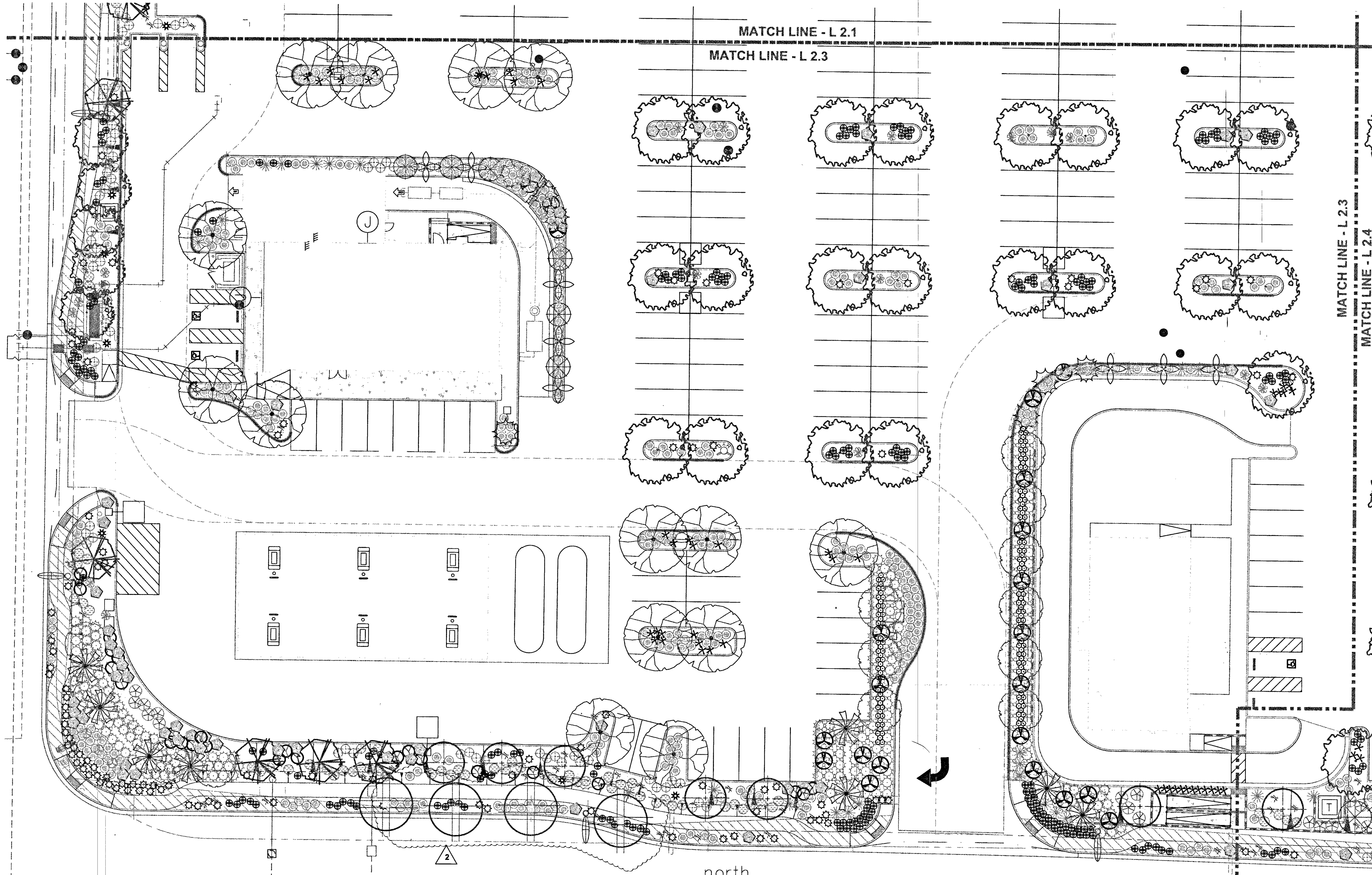
KEY MAP
NTS



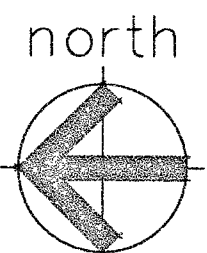
KEY MAP
NTS

PLANT SCHEDULE					
BOTANICAL NAME		COMMON NAME	QTY.	SIZE	REMARKS
TREES					
	ELAEODENDRUM DECIPENS	JAPANESE BLUEBERRY	15	36" BOX	STANDARD TRUNK, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	BUTIA CAPITATA	PINDO PALM	7	15 GAL.	
	OLEA EUROPAEA 'SWAN HILL'	SWAN HILL OLIVE	57	36" BOX	SEMI-MULTI TRUNK, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	EBENOPSIS EBANO	TEXAS EBONY	45	24" BOX	STANDARD TRUNK, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	PISTACIA CHINENSIS	CHINESE PISTACHE	7	24" BOX	STANDARD TRUNK 5' CLEAR OF BRANCHES, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	QUERCUS ILEX	HOLLY OAK	56	24" BOX	STANDARD TRUNK 5' CLEAR OF BRANCHES, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	SOPHORA SECUNDIFLORA	TEXAS MOUNTAIN LAUREL	36	24" BOX	MULTI-TRUNK (3 TO 4 TRUNKS)
	WASHINGTONIA FILIFERA	CALIFORNIA FAN PALM	8	12" BROWN TRUNK	ALL TRUNKS ARE TO BE SKINNED STRAIGHT AND EVEN
	WASHINGTONIA ROBUSTA HYBRID	HYBRID MEXICAN FAN PALM	18	18" BROWN TRUNK	ALL TRUNKS ARE TO BE SKINNED STRAIGHT AND EVEN
	XYLOSMA CONGESTUM	SHINY XYLOSMA	6	24" BOX	STANDARD TRUNK 4' CLEAR
SHRUBS					
	CAESALPINIA PULCHERRIMA	RED BIRD OF PARADISE	54	5 GAL.	
	CYTISUS REVOLUTA	SEGO PALM	27	7 GAL.	
	LONGICORNA X AMERICANA 'PAM'S PINK'	PAM'S PINK HONEYSUCKLE	88	5 GAL.	
	LEUCOPHYLLUM CANBERRUM	THUNDER CLOUD TM	83	5 GAL.	
	RHAPHIOPHOLIS INDICA 'PINK LADY'	INDIAN HAWTHORN	55	5 GAL.	
	SIMMONDISA CHINENSIS VISTA	COMPACT JOJOBA	426	5 GAL.	
GROUNDCOVERS					
	MELAMPYRUM LEUCANTHUM	BLACK FOOT DAISY	317	1 GAL.	
	LANTANA SPECIES 'NEW GOLD'	NEW GOLD LANTANA	105	1 GAL.	
	TEUCORIUM CHAMAEDRYS	BUSH GERMANDER	771	5 GAL.	

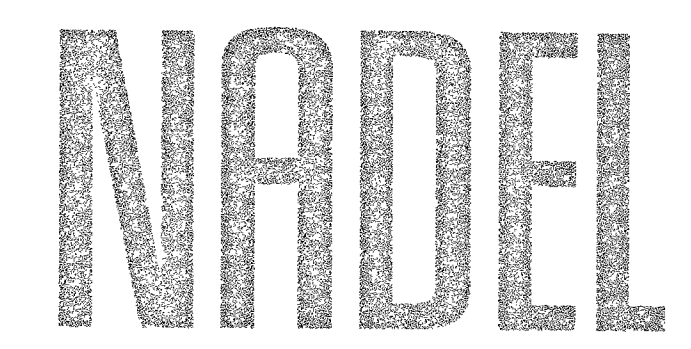
PLANT SCHEDULE					
SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
ACCENTS					
	AGAVE GEMINIFLORA	TWIN-FLOWERED AGAVE	53	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	AGAVE OVATIFOLIA	WHALE'S TONGUE AGAVE	15	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	DASYLIRION QUADRANGULATUM	TOOTHLESS SOTOL	37	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	DIETES BICOLOR	FORTNIGHT LILY	136	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	HEPERALOE PARVIFLORA	RED YUCCA	241	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	YUCCA RUPEOLA	TWISTED LEAF YUCCA	128	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
MATERIALS					
	GRANITE BOULDERS: MEDIUM TO DARK BROWN COLORING	BOULDER SIZES NOTED BELOW IN NOTE #2	77		SEE DETAIL "B" FOR INSTALLATION APPLICATION
	RIP RAP: APACHE BROWN	MAX: 75% 4"-10" & 25% 1"-4"			SEE DETAIL "C" FOR INSTALLATION APPLICATION
	CRUSHED ROCK: APACHE BROWN	ROCK SIZE 1 1/2" SCREEN, ROCK DEPTH 2 1/2"			SEE DETAIL "D" FOR INSTALLATION APPLICATION
NOTES:					
1. DECORATIVE 3/4"-1 1/2" MINUS 'MOHAVE GOLD' CRUSHED ROCK TO 2-INCH DEPTH IN ALL PLANTING BEDS.					
2. GRANITE BOULDERS: MEDIUM TO DARK BROWN COLORING, SIZES 20-24" DIA. 25%, 24-30" DIA. 50%, 30-36" DIA. 25%, SET 1/4 OF THE BOULDERS INTO THE FINISH GRADE.					
3. PRUNING OF TREES SHALL BE DIRECTED ON SITE WITH THE LANDSCAPE ARCHITECT TO THIN OUT AND ADJUST THE SHAPE OF TREES.					
4. FOLLOW TREE AND SHRUB PLANTING GUIDELINES FOR TREE HOLE DEPTH AND SPAN WITH DETAILS "K, L, & M"					
5. THE LANDSCAPE ARCHITECT IS TO APPROVE ALL TREES PRIOR TO PLANTING, PROVIDE 72 NOTICE.					
6. THE LANDSCAPE ARCHITECT IS TO APPROVE ALL TREE HOLES PRIOR TO PLANTING ANY TREES, PROVIDE 72 NOTICE.					



PLANTING PLAN



0 10' 20' 40'
SCALE: 1"=20'-0"



NADEL NEVADA INC
175 E. WARM SPRINGS ROAD
SUITE 100
LAS VEGAS, NV 89119
T. 702.896.2000
F. 702.898.7170
WWW.NADELARC.COM

PROFESSIONAL STAMP(S)
REGISTERED LANDSCAPE ARCHITECT
STATE OF NEVADA
318
102117
Expires: 8-30-18
CONSULTANT:

HILL CLARK
& ASSOCIATES
LANDSCAPE ARCHITECTURE
94 Megan Drive
Henderson, NV 89074
P: (702) 358-8700

CLIENT:
DEER SPRINGS
VILLAGE, LLC

10655 PARK RUN DRIVE #160
LAS VEGAS, NV 89144
CLIENT PROJECT No: 07-05-2016

PROJECT:
DEER SPRINGS
VILLAGE

6750 N HUALAPAI WAY
LAS VEGAS, NV 89149

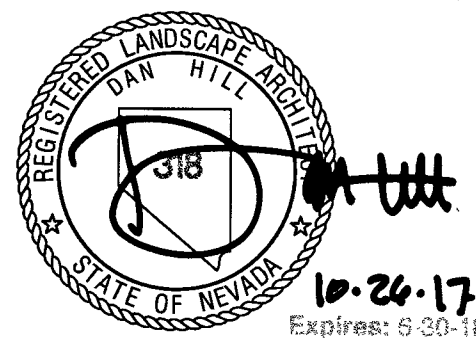
PUBLIC AGENCY SUBMITTAL: N/A
ISSUED FOR BIDDING: N/A
ISSUED FOR CONSTRUCTION: N/A

REVISIONS:	ISSUE DATE:
1 Plan Check Comments 08-18-2017	
2 Plan Check Comments 10-24-2017	

NADEL PROJECT No: 18061
PROJECT DATE: 07-05-2017
ISSUE: 07-05-2017
DRAWING TITLE:

PLANTING
PLAN

L17-00759
107X5072
L2.3



94 Megan Drive
Henderson, NV 89074
P: (702) 358-8700

CLIENT:

DEER SPRINGS
VILLAGE, LLC

10655 PARK RUN DRIVE #160
LAS VEGAS, NV 89144

CLIENT PROJECT No: 07-05-2016

PROJECT:

DEER SPRINGS
VILLAGE

6750 N HUALAPAI WAY
LAS VEGAS, NV 89149

PUBLIC AGENCY SUBMITTAL: N/A

ISSUED FOR BIDDING: N/A

ISSUED FOR CONSTRUCTION: N/A

REVISIONS:
ISSUE DESCRIPTION: ISSUE
NO.: DATE:

1 Plan Check Comments 08-18-2017

2 Plan Check Comments 10-24-2017

NADEL PROJECT No: 16061

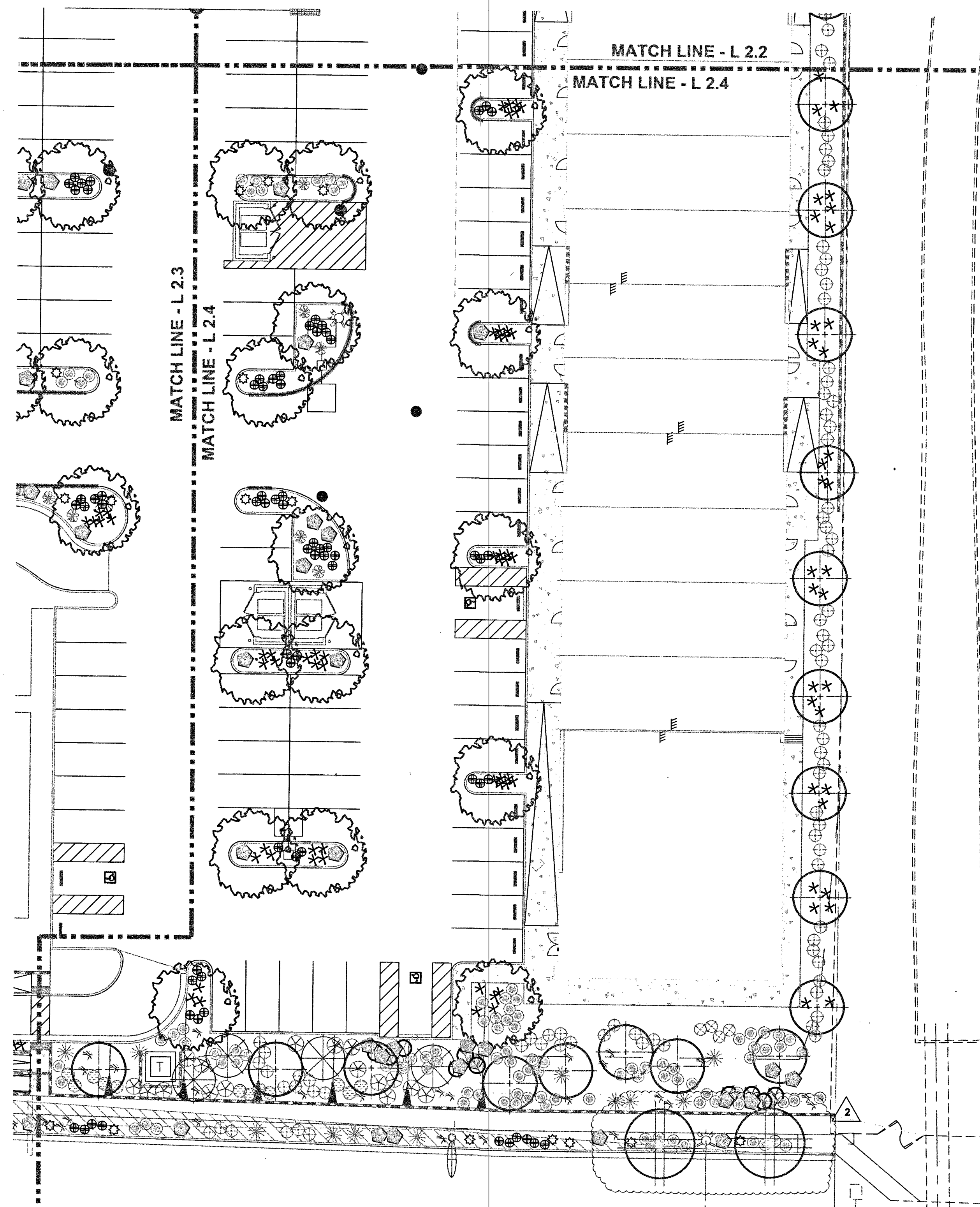
PROJECT DATE: 07-05-2017

DRAWING TITLE:

PLANTING
PLAN

L17-00751
10745072

L2.4



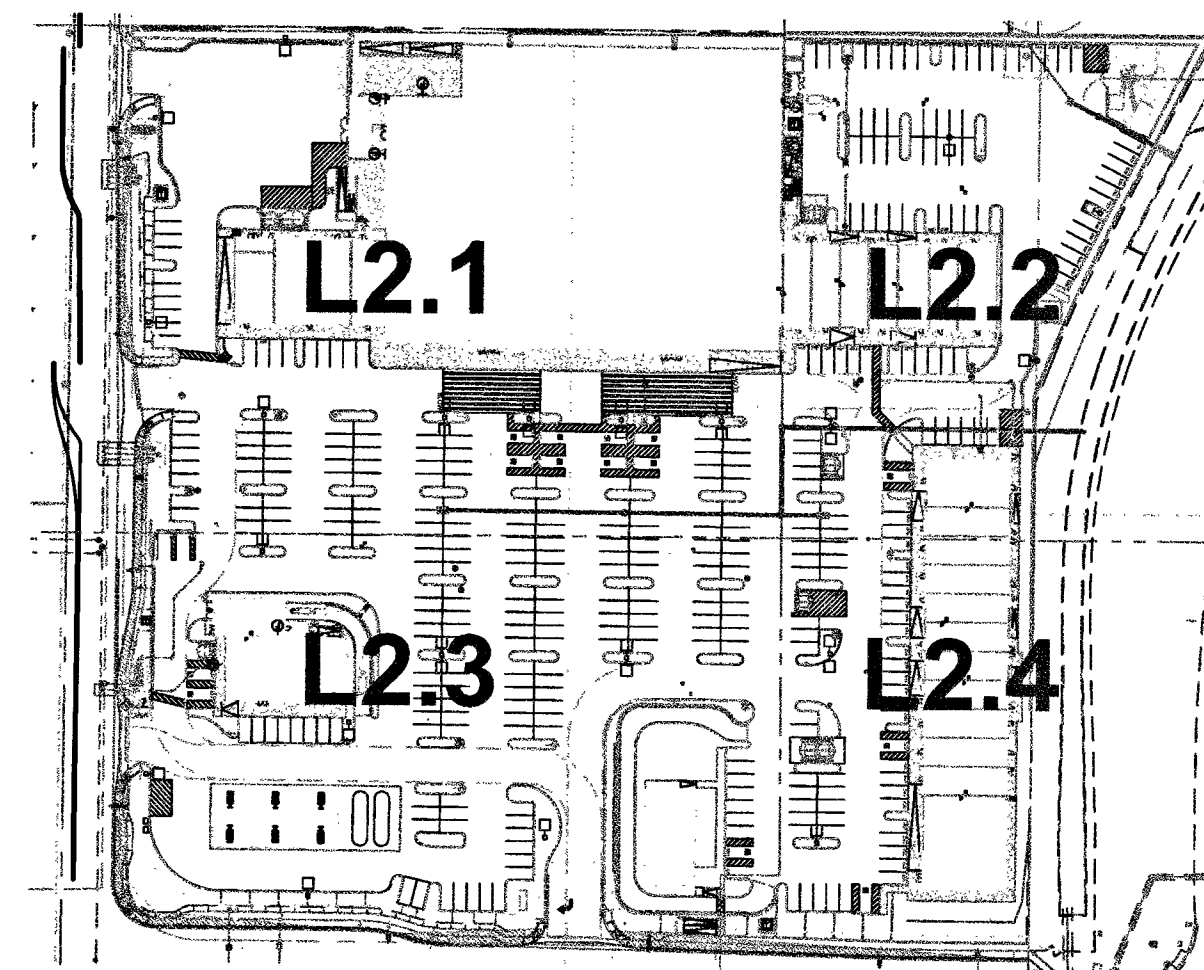
PLANTING PLAN



PLANT SCHEDULE SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
TREES					
	ELAEAGNUS DECIPENS	JAPANESE BLUEBERRY	15	36" BOX	STANDARD TRUNK, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	BUTIA CAPITATA	PINN PALM	7	15 GAL	
	OLEA EUROPAEA 'SWAN HILL'	SWAN HILL OLIVE	57 6	36" BOX 48" BOX SCREEN	SEMI-MULTI TRUNK, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	EBENOPSIS EBANO	TEXAS EBONY	45	24" BOX	STANDARD TRUNK, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	PISTACIA CHINENSIS	CHINESE PISTACHE	7 3	24" BOX 48" BOX SCREEN	STANDARD TRUNK 4' CLEAR OF BRANCHES, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	QUERCUS ILEX	HOLLY OAK	56 1	24" BOX 48" BOX SCREEN	STANDARD TRUNK 4' CLEAR OF BRANCHES, SUBMIT PHOTOS OF TREES PRIOR TO PURCHASE FOR APPROVAL
	SOPHORA SECUNDIFLORA	TEXAS MOUNTAIN LAUREL	36	24" BOX	MULTI-TRUNK (3 TO 4 TRUNKS)
	WASHINGTONIA FILIFERA	CALIFORNIA FAN PALM	8	12 BROWN TRUNK	ALL TRUNKS ARE TO BE SKINNED STRAIGHT AND EVEN
	WASHINGTONIA ROBUSTA HYBRID	HYBRID MEXICAN FAN PALM	18	18 BROWN TRUNK	ALL TRUNKS ARE TO BE SKINNED STRAIGHT AND EVEN
	XYLOSMA CONGESTUM	SHINY XYLOSMA	6	24" BOX	STANDARD TRUNK 4' CLEAR
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	CYCAS REVOLUTA	SEGO PALM	27	7 GAL	
	LONICERA X AMERICANA 'PINK PINK'	PINK PINK HONEYSUCKLE	88	5 GAL	
	LEUCOPHYLLUM CANDIDUM	THUNDER CLOUD TM	83	5 GAL	
	RHAPHIOLEPS INDICA 'PINK LADY'	INDIAN HAWTHORN	55	5 GAL	
	SHIMONDISIA CHINENSIS 'VISTA'	COMPACT JUJUBA	426	5 GAL	
GROUNDCOVERS					
	MELAMPODIUM LEUCANTHEMUM	BLACK FOOT DAISY	317	1 GAL	
	LANTANA SPECIES 'NEW GOLD'	NEW GOLD LANTANA	105	1 GAL	
	TEUCORIUM CHAMAEDRYFIS	BUSH GERMANDER	771	5 GAL	
	TRACHELOSPERMUM JASMINODES	STAR JASMINE	280	5 GAL	
ACCENTS					
	AGAVE GEOMIFLORA	TWIN-FLOWERED AGAVE	53	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	AGAVE OVATIFOLIA	WHALE'S TONGUE AGAVE	15	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	DASYLIRON QUADRANGULATUM	TOOTHLESS SOTOL	37	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	DIETES BICOLOR	FORTNIGHT LILY	136	5 GAL	
	HEPERALOE PARVIFLORA	RED YUCCA	241	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
	YUCCA RUPEOLA	TWISTED LEAF YUCCA	128	5 GAL	SUBMIT PHOTOS OF AGAVE PRIOR TO PURCHASE FOR APPROVAL
MATERIALS					
	GRANITE BOULDERS: MEDIUM TO DARK BROWN COLORING	BOULDER SIZES NOTED BELOW IN NOTE #2	77		SEE DETAIL 'H' FOR INSTALLATION APPLICATION
	RIP RAP: APACHE BROWN	MIX: 75% 4"-10" & 25% 1"-4"			SEE DETAIL 'I' FOR INSTALLATION APPLICATION
	CRUSHED ROCK	CRUSHED ROCK: APACHE BROWN			SEE DETAIL 'W' FOR INSTALLATION APPLICATION

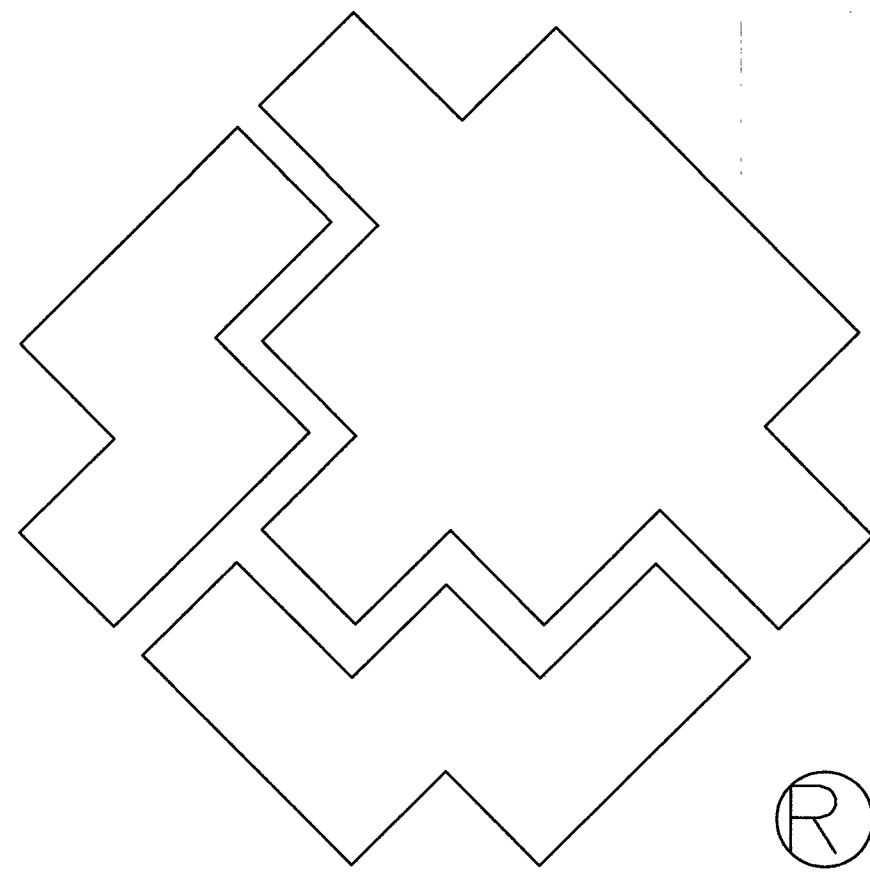
NOTES:

1. DECORATIVE 3/4"-1" MINUS 'MOHAVE GOLD' CRUSHED ROCK TO 2"-3" DEPTH IN ALL PLANTING BEDS.
2. GRANITE BOULDERS: MEDIUM TO DARK BROWN COLORING, SIZES 20-24" DIA. 25%, 24-30" DIA. 50%, 30-36" DIA. 25%, SET 1/4 OF THE BOULDERS INTO THE FINISH GRADE.
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6. THE LANDSCAPE ARCHITECT IS TO APPROVE ALL TREE HOLES PRIOR TO PLANTING ANY TREES, PROVIDE 72 NOTICE.



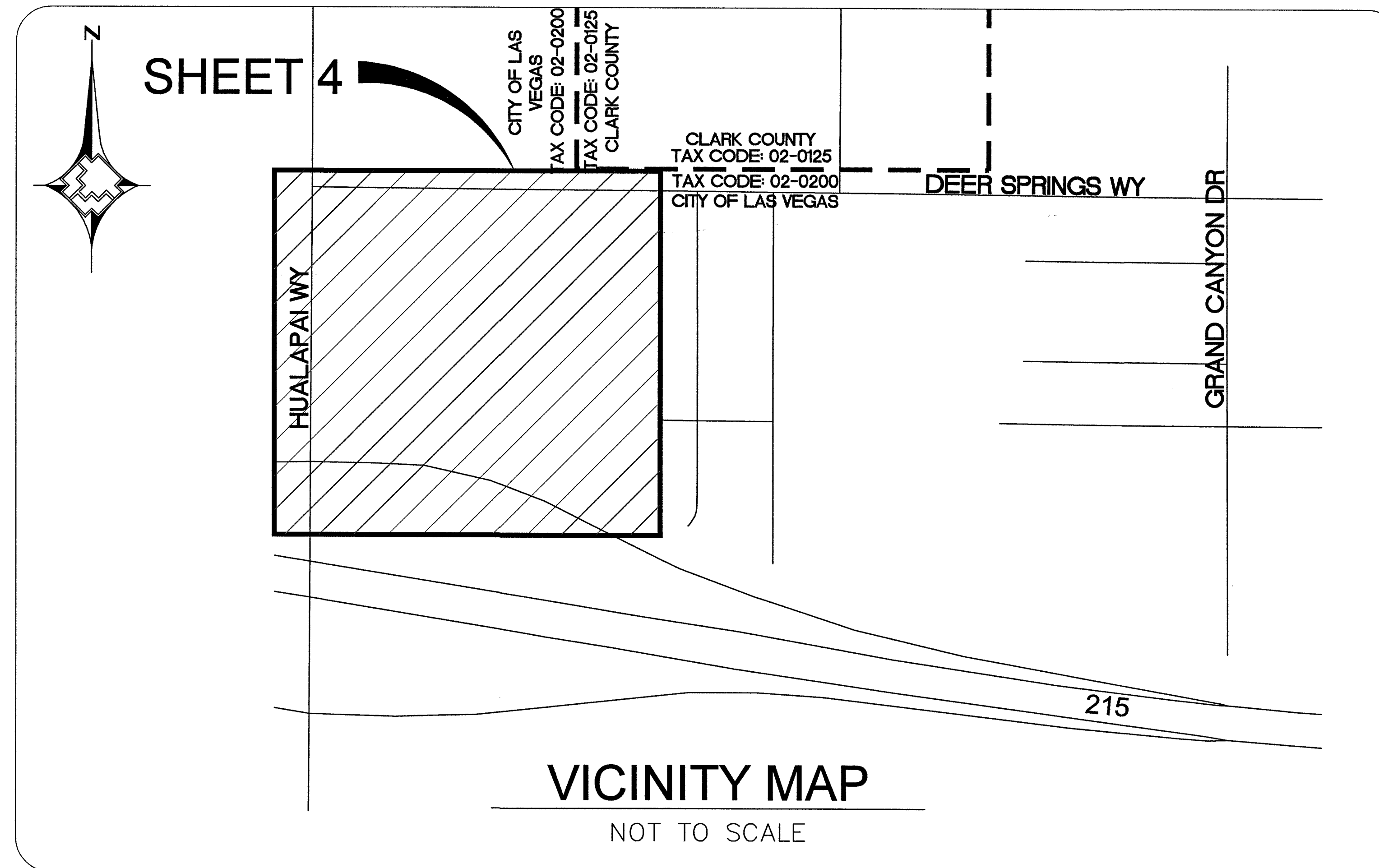
KEY MAP
NTS

BD SUBMITTAL SET



SOUTHWEST GAS CORPORATION

C CLV DEER SPRINGS VILLAGE CITY OF LAS VEGAS, NV WR #3658598



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
	TAX CODE BOUNDARY
	MATCHLINE
	PAVEMENT CUT AND REPAIR
	EXISTING ANODELESS RISER
	EXISTING ANODE RISER
	EXISTING GAS LIGHT
	EXISTING GAS VALVE
STL ①	PE ①
	ABANDONED FACILITIES CALL OUT
	GAS DIMENSIONS
	EXCESS FLOW VALVE

SHEET INDEX

1. COVER SHEET
2. ABBREVIATIONS AND NOTES
3. MATERIALS AND SIGNATURES - PE
4. DESIGN PLAN
5. DESIGN PLAN
6. TYPICAL SWPPP BMPs DETAILS

Total footage located in Public ROW 18'

APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV RAW
OR CLV EASEMENTS ONLY. OBTAINING PERMISSIONS
OR EASEMENTS FOR WORK SHOWN ON PRIVATE
PROPERTY IS THE RESPONSIBILITY OF THE
UTILITY.

APPROVAL _____ DATE _____

Hansen _____ Dwg _____



CUSTOMER 6

1. 2. 3. 4. NO. DESCRIPTION BY DATE APPVD				AS-BUILT DRAWING-PRESSURE TEST DATA				INDIVIDUAL PERFORMING VISUAL INSPECTION				CONSTRUCTION		ISOLATION AREA		W.R. NO.		ENGINEER/TECH: RYAN STEMMERIK		PHONE: 702-365-2311							
REVISIONS				SEE SHEET 3				SEE SHEET 3				SEE SHEET 3		ISO_21_DIST_328		3658598		ACCOUNT REP: ANDREW CARLSON		PHONE: 702-365-2060							
TAX CODES				UNIT NO.				UNIT TYPE				INSTL. RETIRED				PERMIT INFORMATION				LOCATION		ATLAS #/TILE #		PROJECT CONTACT: KEVIN NOVAK		PHONE: 574-303-7053	
PROPERTY UNITS				INSTL. RETIRED				TEST PRES. (PSIG): (MAX) (MIN)				CITY OF LAS VEGAS				SEC 19		x579y558		SHEET NO: 1 OF 6		SCALE: NTS		DATE: 7/21/2018			
INSTL. RETIRED				PROPOSED COMPLETED				TIME (START) (STOP)				TAX CODE: 02-0200				T19S R60E		x579y556		DWN. BY: BC&F		CHKD. BY:		APPVD. BY:			
INSTL. RETIRED				COMPLETED				DATE (START) (STOP)				POSTED BY				M.D.M.								C CLV DEER SPRINGS VILLAGE			
INSTL. RETIRED				COMPLETED				PERFORMED BY:				POSTING QC'D BY												COVER SHEET			
INSTL. RETIRED				COMPLETED				VERIFIED BY:																10715072- 417-00759			



- RTC STD DWG 503



YD YARD(S)

 503

[illegible]

1. NO STEEL WITHIN PROJECT LIMITS.
NO CP ACTION REQUIRED.

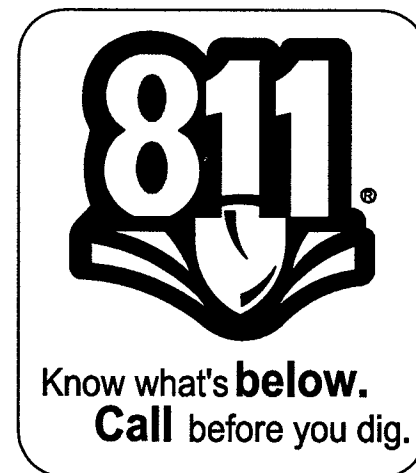
SIGNATURE _____
DATE _____

SYSTEM M.O.P. 55 psig

SIGNATURE: _____

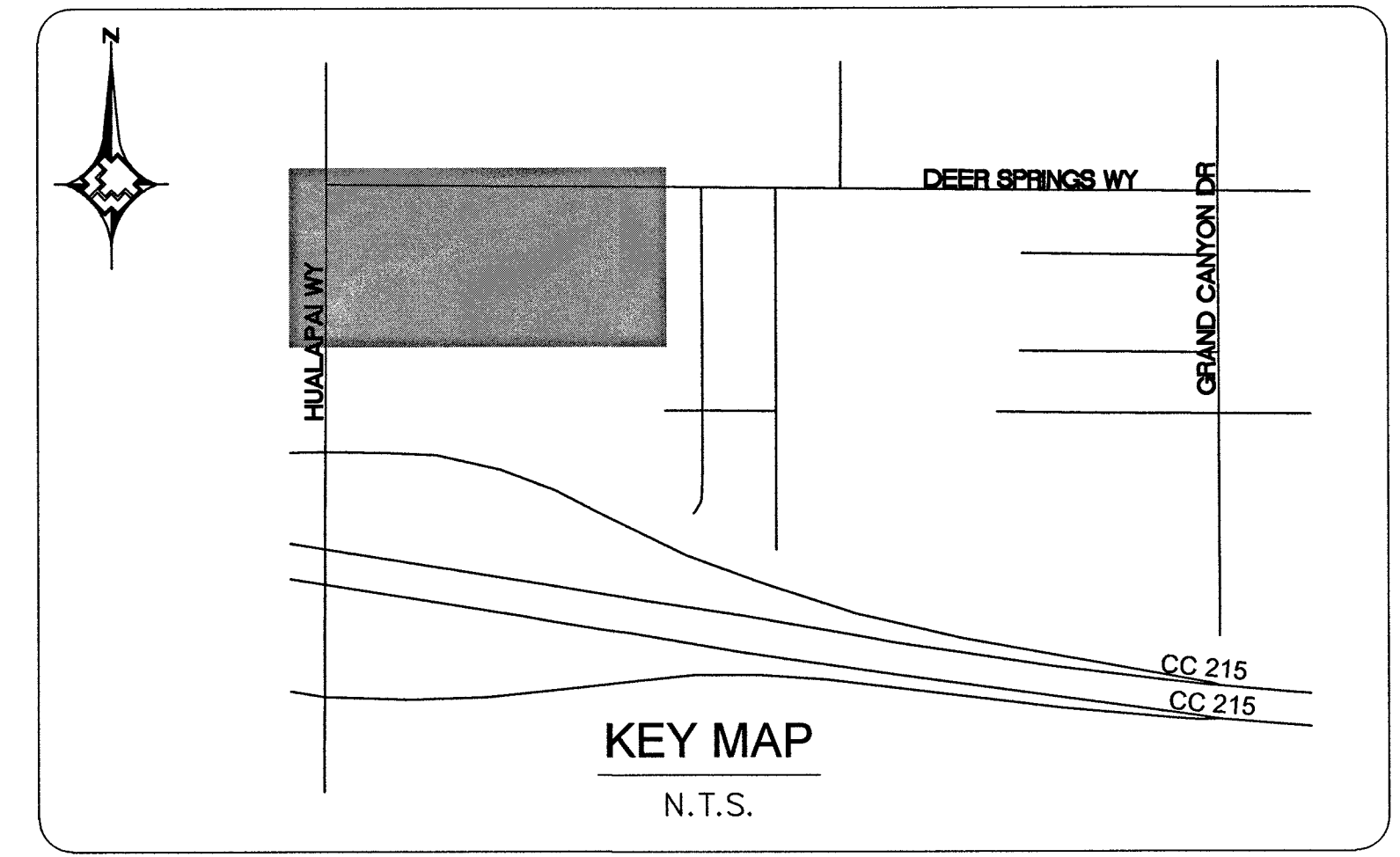
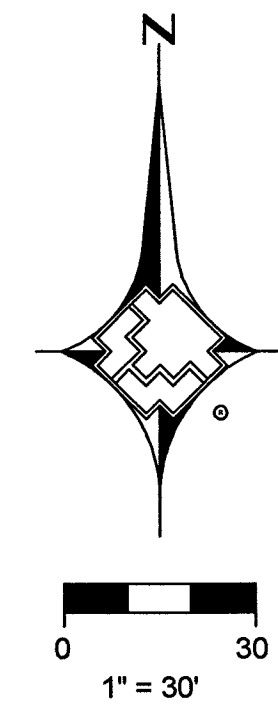
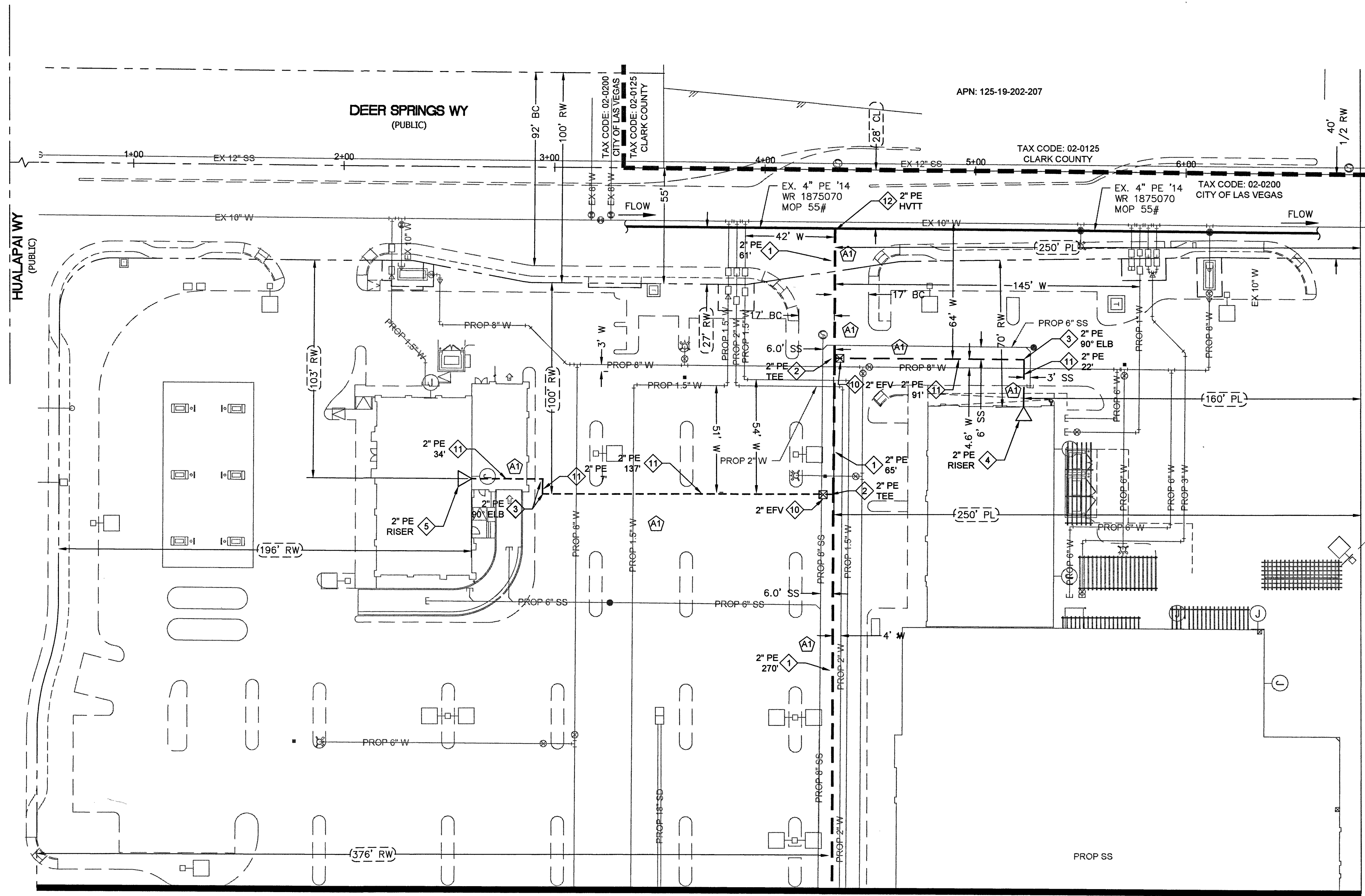
PIPE DIA. _____ ☐ AIR ☐ GAUGE
PIPE LENGTH _____ ☐ NITROGEN ☐ CHART
PIPE TYPE _____ ☐ WATER GAUGE/
MIN. DURATION _____ ☐ SOAP PRESS REC SN#

TEST PRES. (PSIG) _____ START _____ END _____
TIME _____
DATE _____
PERFORMED BY _____



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES				
ITEM#	QTY. (DESIGN)	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1	837'		100-5101	2" PE MAIN
2	5		140-3074	2" PE TEE
3	9		140-3067	2" PE 90° ELBOW
4	1		161-7661	2" PE RISER (2 MTR MNFLD, 7" W.C., 2,000 CFH, 6' SPREAD)
5	1		161-7661	2" PE RISER (7" W.C., 500 CFH, 5' SPREAD)
6	1		161-7661	2" PE RISER (7" W.C., 5,000 CFH, 6' SPREAD)
7	1		161-7661	2" PE RISER (7 MTR MNFLD, 7" W.C., 3,000 CFH 6' SPREAD)
8	1		161-7661	2" PE RISER (12 MTR MNFLD, 7" W.C., 4,000 CFH 6' SPREAD)
9	1		161-7661	2" PE RISER (7" W.C., 1,500 CFH 6' SPREAD)
10	6		160-9271	2" PE COUPLING EFV 5,500
11	1021'		100-5101	2" PE SERVICE
12	1		160-8171	2" HVTT

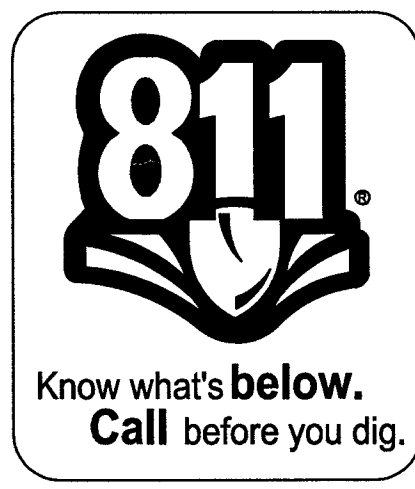
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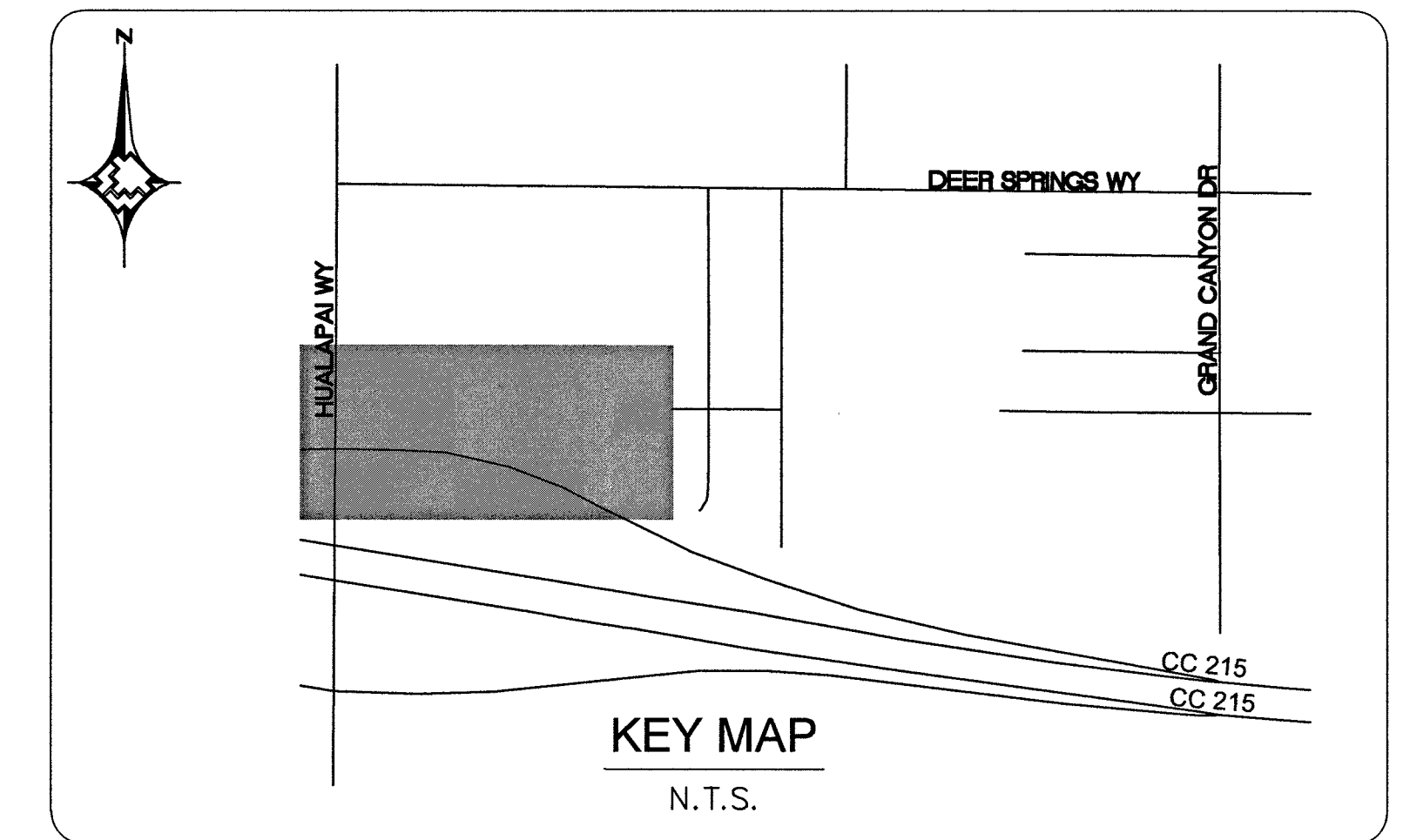
MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES			
ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1		100-5101	2" PE MAIN
2		140-3074	2" PE TEE
3		140-3067	2" PE 90° ELBOW
4		161-7661	2" PE RISER (2 MTR MNFLD, 7" W.C., 2,000 CFH, 6' SPREAD)
5		161-7661	2" PE RISER (7" W.C., 500 CFH, 6' SPREAD)
10		160-9271	2" PE COUPLING EFV 5,500
11		100-5101	2" PE SERVICE
12		160-8171	2" HVTT

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

MATCHLINE - SEE SHEET 5



1. 2. 3. 4. NO. DESCRIPTION BY DATE APPVD. REVISIONS				AS-BUILT DRAWING-PRESSURE TEST DATA PIPE DIA. _____ TEST MEDIUM _____ TEST METHOD _____ PIPE LENGTH _____ ☐ AIR ☐ GAUGE PIPE TYPE _____ ☐ NITROGEN ☐ CHART MIN. DURATION _____ ☐ WATER ☐ GAUGE/ TEST PRES. (PSIG) (MAX) _____ SOAP PRESS REC SN# _____ TIME (MIN) _____ (STOP) _____ DATE (START) _____ (STOP) _____ PERFORMED BY: _____ DATE VERIFIED BY: _____				INDIVIDUAL PERFORMING VISUAL INSPECTION I HAVE VISUALLY INSPECTED ALL HEATED FUSION, SOLVENT CEMENT, MECHANICAL JOINTS, AND WELDS. I HAVE PERFORMED _____ NAME _____ DATE _____ INSPECTOR _____ FOREMAN _____ REVIEWED BY _____ CONSTRUCTION SEE SHEET 3				ISOLATION AREA ISO_21_DIST_328		W.R. NO. 3658598		ENGINEER/TECH: RYAN STEMMERIK PHONE: 702-365-2311 ACCOUNT REP: ANDREW CARLSON PHONE: 702-365-2060 PROJECT CONTACT: KEVIN NOVAK PHONE: 574-303-7053 SHEET NO: 4 OF 6 SCALE: 1" = 30' DATE: 7/21/2018 DWN. BY: BC&F CHKD. BY: _____ APPVD. BY: _____	
SOUTHWEST GAS CORPORATION				TAX CODES UNIT NO. UNIT TYPE INSTL. RETIRED INSTL. RETIRED PROPOSED COMPLETED PROPERTY UNITS				LOCATION SEC 19 T19S R60E M.D.M.		ATLAS #/TILE # x579y558 x579y556		C CLV DEER SPRINGS VILLAGE DESIGN PLAN 10755072 L17-00759					



MATERIAL LIST FOR PROPOSED DISTRIBUTION FACILITIES			
ITEM#	QTY. (AS-BUILT)	STOCK ID#	DESCRIPTION
1		100-5101	2" PE MAIN
2		140-3074	2" PE TEE
3		140-3067	2" PE 90° ELBOW
6		161-7661	2" PE RISER (7" W.C., 5,000 CFH, 6' SPREAD)
7		161-7661	2" PE RISER (7 MTR MNFLD, 7" W.C., 3,000 CFH 6' SPREAD)
8		161-7661	2" PE RISER (12 MTR MNFLD, 7" W.C., 4,000 CFH 6' SPREAD)
9		161-7661	2" PE RISER (7" W.C., 1,500 CFH 6' SPREAD)
10		160-9271	2" PE COUPLING EFV 5,500
11		100-5101	2" PE SERVICE

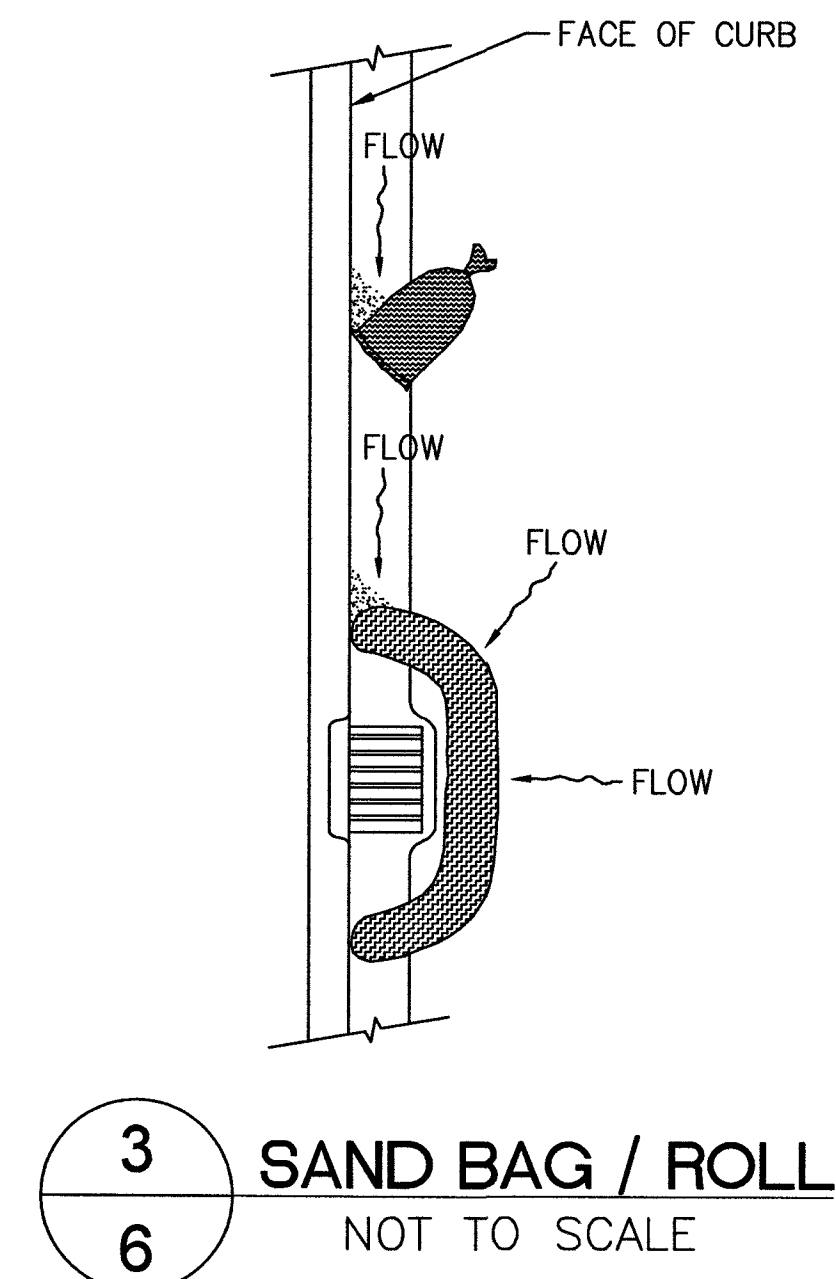
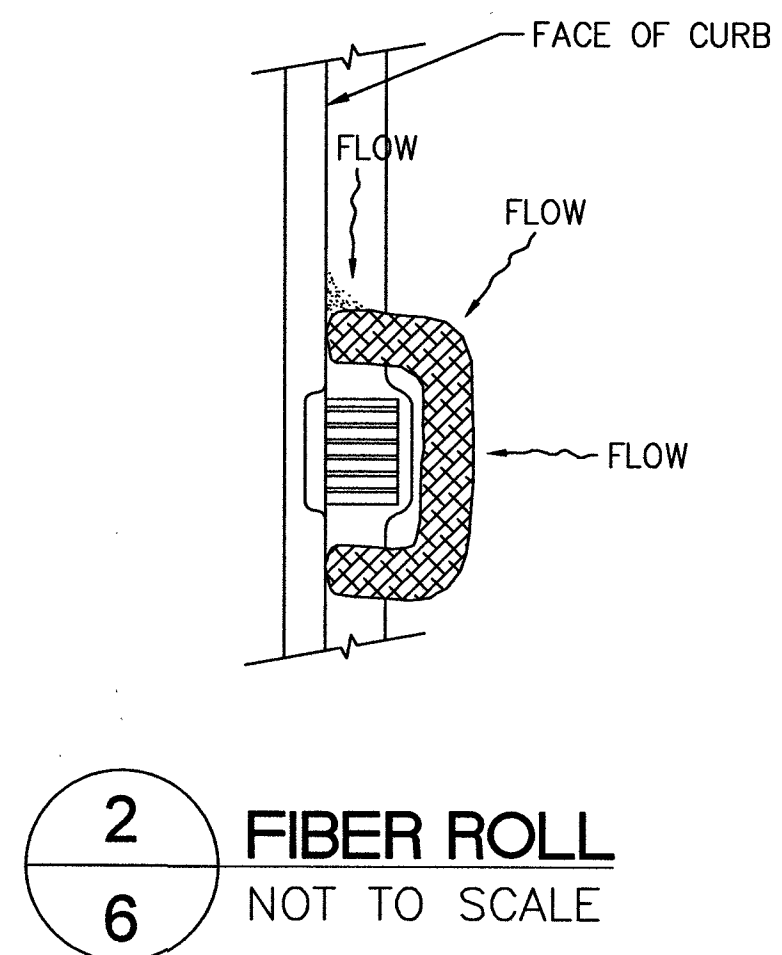
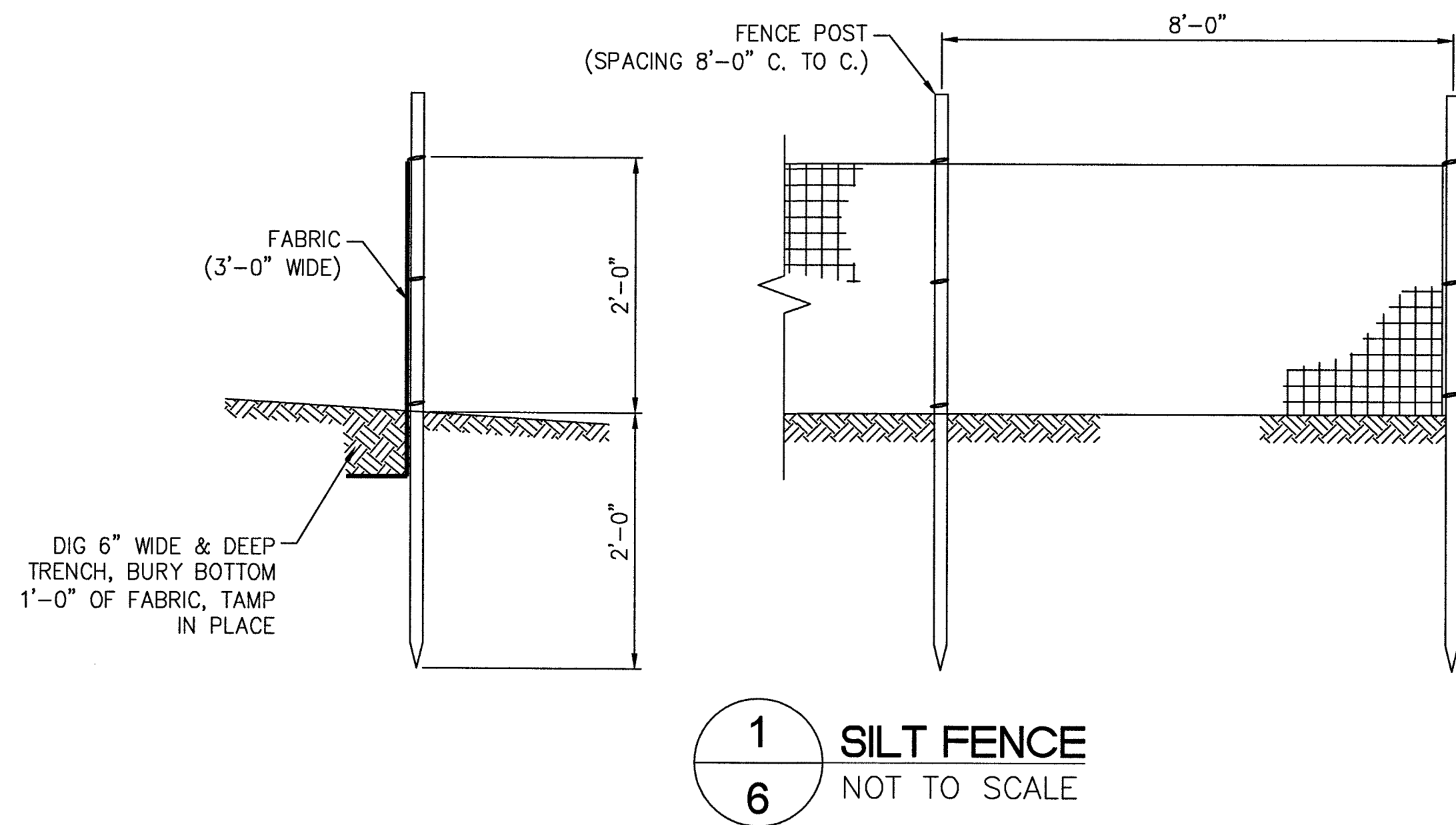
A1 503



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

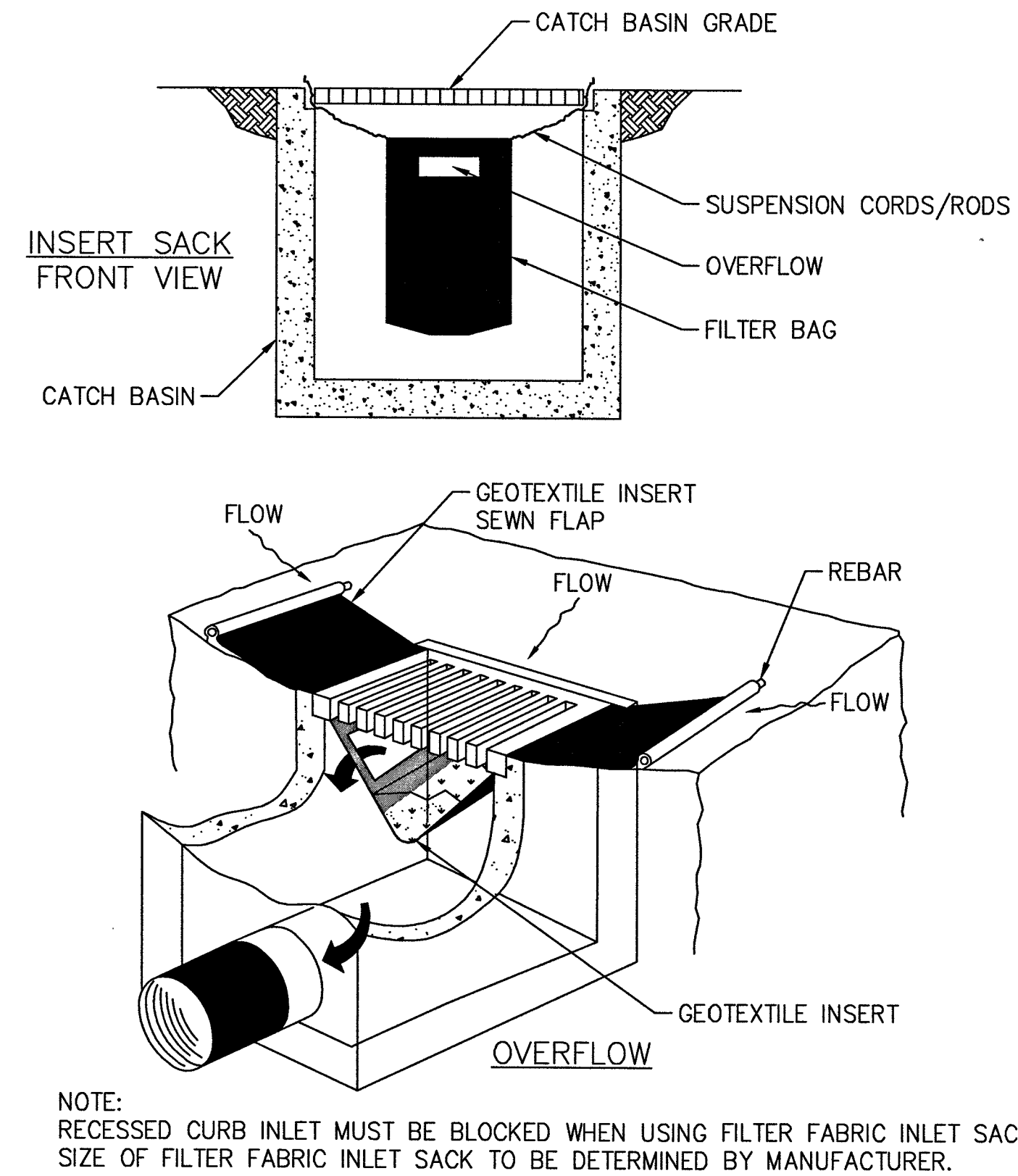
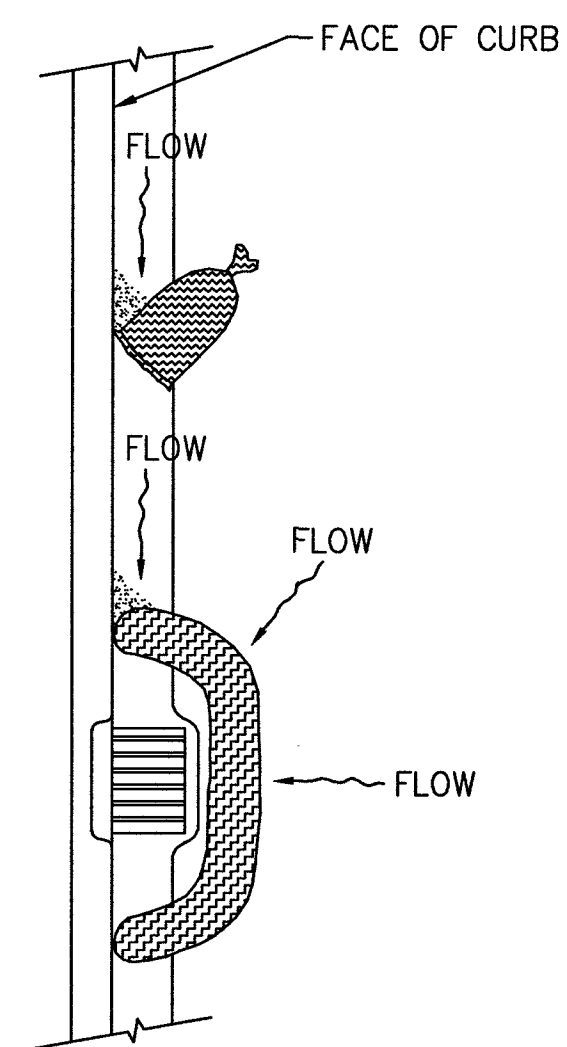
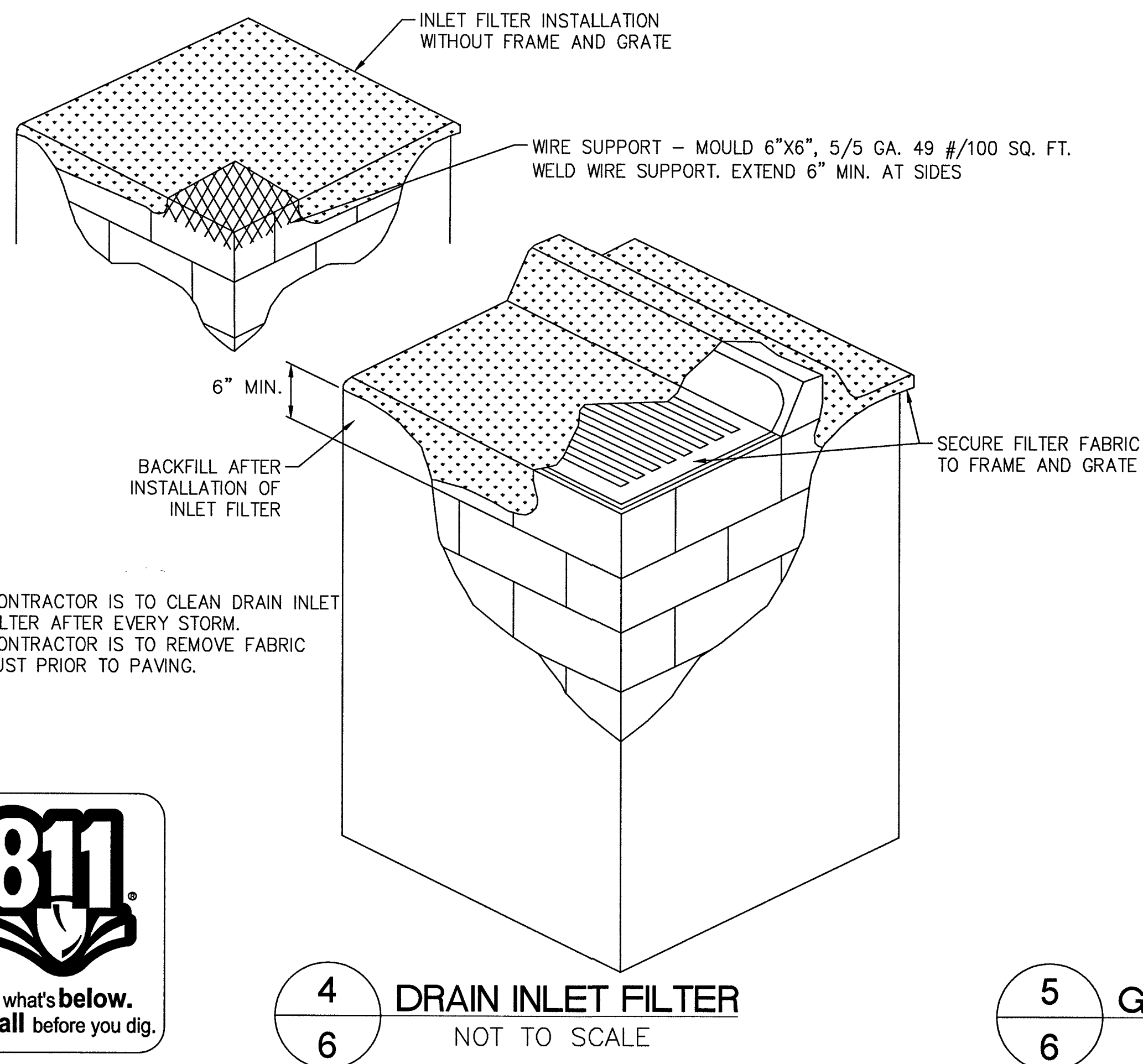
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TYPICAL SWPPP BMPs DETAILS



STORMWATER NOTES

1. SOUTHWEST GAS CORPORATION, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL INSTALL ONE OF THE APPROPRIATE BMPs 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, IT'S 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, IT'S CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE LISTED BMPs ON THIS SHEET DO NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CLARK COUNTY CODE - CHAPTER 24.40/STORM SEWER SYSTEM DISCHARGE AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
4. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER 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:
RECESSED CURB INLET MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS.
SIZE OF FILTER FABRIC INLET SACK TO BE DETERMINED BY MANUFACTURER.



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

4 DRAIN INLET FILTER
6 NOT TO SCALE

5 GRAVEL BAG / ROLL
6 NOT TO SCALE

6 SEDIMENT FILTER BAG
6 NOT TO SCALE

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