

TUSCANY PARK

5125 BANDELIER DR. NW
CITY OF ALBUQUERQUE

PARKS AND RECREATION DEPARTMENT

PHASE ONE SITE IMPROVEMENTS

INDEX

| SHEET | DESCRIPTION |
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| 1 | TITLE SHEET |
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SITE ACREAGE

TOTAL PARK SITE: 9.3 AC.
PHASE ONE AREA: APPROX 40886 SF .93 AC.
TURFGRASS
STANDARD TURFGRASS AREA: 6397 SF
NATIVE TURFGRASS AREA: 998 SF

APPROVED FOR CONSTRUCTION:

John M. Kelly
JOHN KELLY P.E.
EXECUTIVE ENGINEER
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

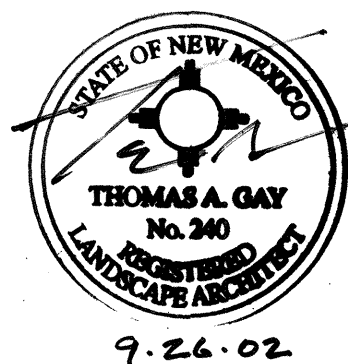
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 6 8 6 8 . 9 1 1 0 5

sites southwest
5150 A SAN FRANCISCO NE
ALBUQUERQUE, NM 87109
PHONE: 505-822-8200
FAX: 505-822-8282
E-MAIL: mail@sites-sw.com
WEB: www.sites-sw.com
PLANNING
LANDSCAPE ARCHITECTURE
MARKET ANALYSIS

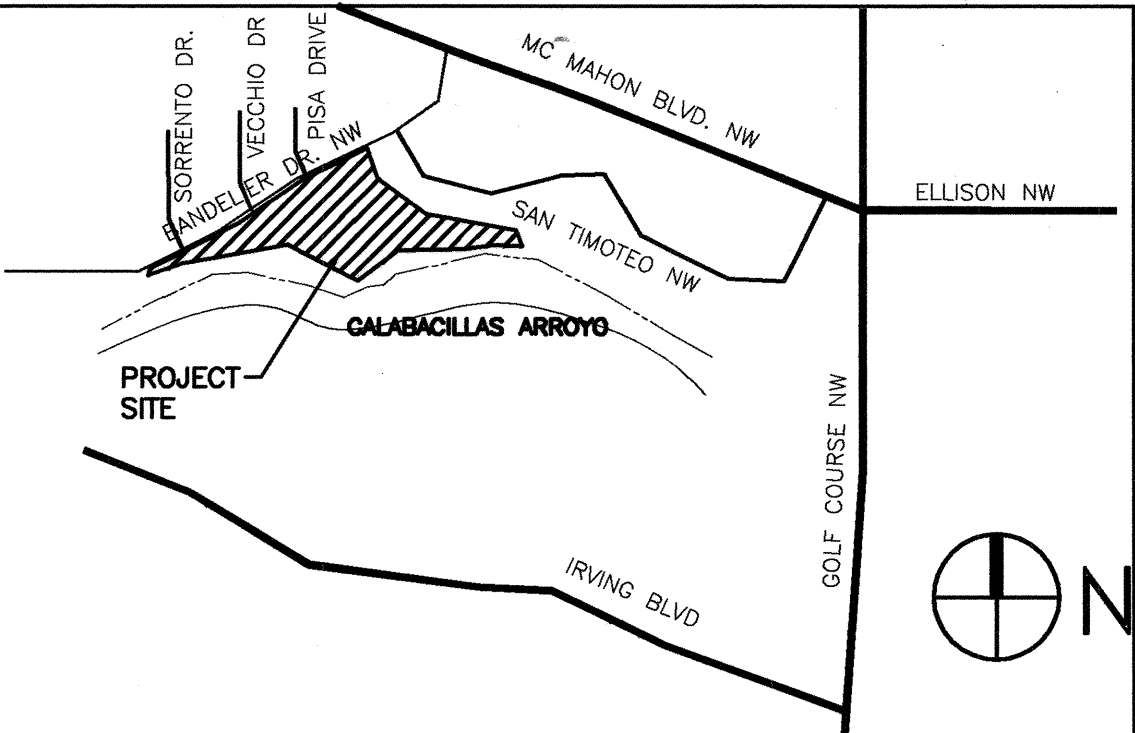
CONSTRUCTION NOTES:

- WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1" WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE AND EXCAVATION PERMITS, ETC.)
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER PLAN.
- THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.

DAVID FLORES
APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
David Flores (Proj. Mgr.)
DATE 6-17-05



| | | | | | | | |
|-----------------------------|--------|-------------------|-------------------|-----------------|---|-----------------|------|
| REV. | SHEETS | CITY ENGINEER | DATE | USER DEPARTMENT | DATE | USER DEPARTMENT | DATE |
| ENGINEERS STAMP & SIGNATURE | | APPROVALS | ENGINEER | DATE | APPROVED FOR CONSTRUCTION | | |
| FINAL FOR CONSTRUCTION | | DRC Chairman | <i>John Kelly</i> | 9-26-02 | <i>John Kelly</i> 9/26/02 City Engineer Date | | |
| | | Transportation | <i>John Kelly</i> | 9-26-02 | | | |
| | | NM Utilities | <i>John Kelly</i> | 9-26-02 | | | |
| | | Hydrology | <i>John Kelly</i> | 9-26-02 | | | |
| | | Parks | <i>John Kelly</i> | 9-26-02 | | | |
| | | Const. Coordinat. | <i>John Kelly</i> | 9-26-02 | | | |
| CITY PROJECT NO. | | 6868.91 | | SHEET | | OF | |
| | | | | 1 | | 13 | |



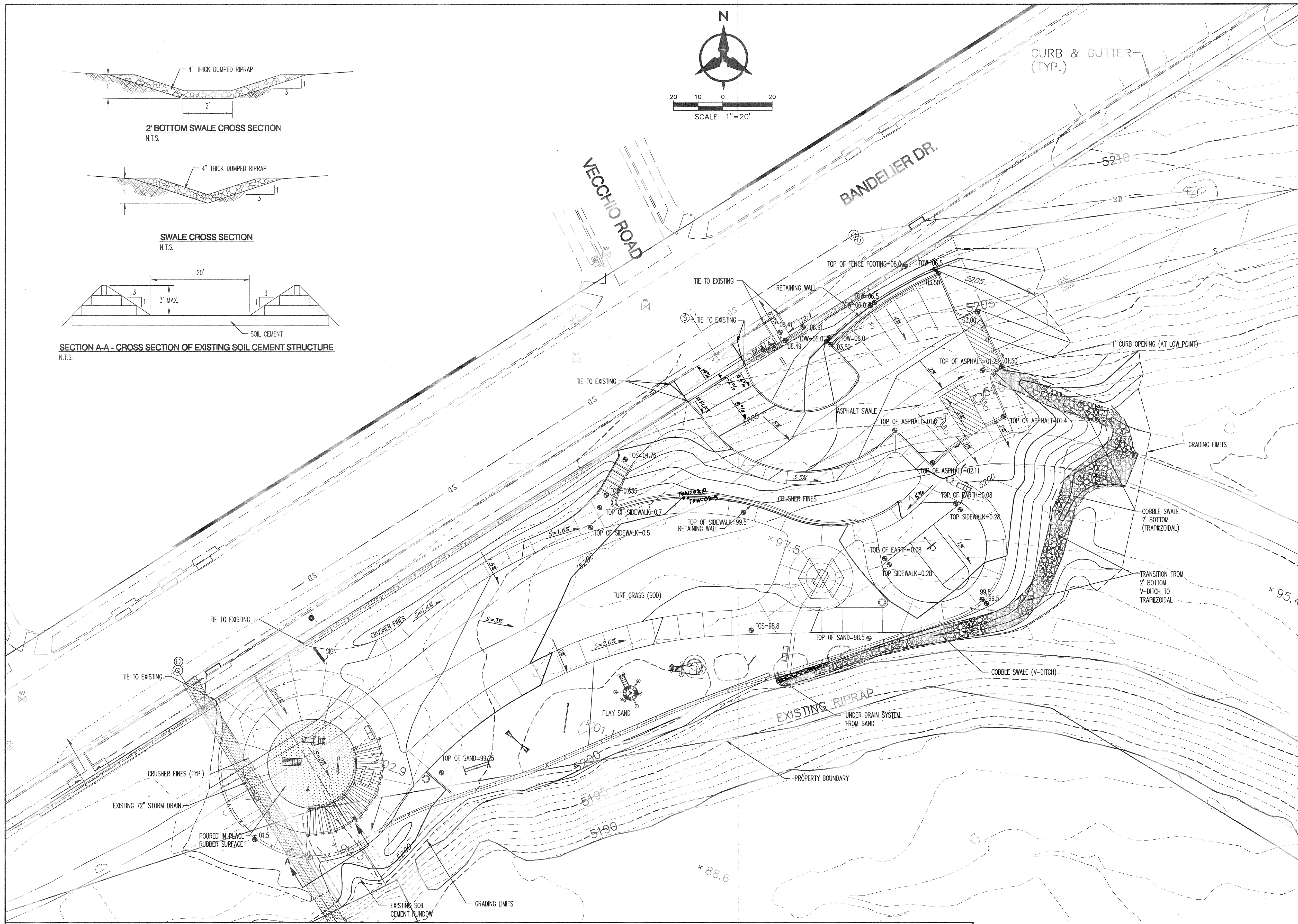
VICINITY MAP
NOT TO SCALE
A-12

NOTICE TO CONTRACTORS

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE No.6
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3409) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THE PROJECT LIMITS NOT SHOWN ON THE PLANS THAT IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT DESIGNER'S EXPENSE.
- CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING CITY FACILITIES. ANY DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED IN KIND, AS DETERMINED BY THE OWNER'S REPRESENTATIVE. REPLACEMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE, AS PER C.O.A. SPECS.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☐ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSIONED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☐ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☐ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.



**DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY
NOTICE TO CONTRACTOR**

1. ANY EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN A CITY RIGHT OF WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" 1996.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 785-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTION. SHOULD A CONFLICT EXISTING, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
6. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

LEGEND

- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED INDEX CONTOURS
- PROPOSED INTERMEDIATE CONTOURS
- PROPOSED SPOT ELEVATIONS
- RETAINING WALL
- COBBLE SWALE

GRADING NOTES

1. CONTRACTOR SHALL CLEAR ENTIRE SITE TO REMOVE TRASH, DEBRIS, CONCRETE, TUMBLEWEEDS, TYP. ALL EXISTING BOULDERS SHALL REMAIN ON SITE FOR USE AS DIRECTED.
2. CONTRACTOR SHALL PROTECT EXISTING VEGETATION ON SITE IN ALL AREAS NOT SHOWN TO BE GRADED OR DISTURBED.
3. SPOT ELEVATIONS ON CURB REFER TO TOP OF CURB UNLESS OTHERWISE NOTED.
4. CONTOURS SHOWN ARE FOR FINISHED GRADES. THEY SHOULD BE ADJUSTED BY ROUGH GRADING CONTRACTOR BASED ON THE CROSS SECTIONS SHOWN TO OBTAIN SUBGRADE ELEVATIONS.
5. CARE SHOULD BE TAKEN IN THE AREA OF THE 72" STORM DRAIN TO PREVENT DAMAGE TO THE PIPE.
6. SITE SHOULD BE COMPACTED TO 95% PER ASTM D-1557 IN AREAS WHERE CONCRETE WILL BE PLACED AND 90% PER ASTM D-1557 ON THE REST OF THE SITE.
7. FINAL ROUGH GRADES SHOULD BE TO WITHIN ± 0.1 FEET OF SHOWN.

NOTES

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48-HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W OR EASEMENT. TEL (505) 884-2215 JERRY LOVATO.
2. NO WORK WILL BE PERFORMED IN THE AMAFCA R/W BETWEEN MAY 15 AND OCTOBER 15 WITHOUT WRITTEN PERMISSION FROM AMAFCA.
3. ALL SUBGRADE, BACKFILL AND EMBANKMENT SHALL BE COMPACTED TO 95% (MODIFIED PROCTOR) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD ENGINEER.
4. AMAFCA FIELD ENGINEER WILL BE NOTIFIED 48 HOURS PRIOR TO FINAL INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.
5. ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. SECTION 1012 NATIVE GRASS SEEDING AS CURRENTLY UPDATED.

**APPROVED FOR CONSTRUCTION WITHIN AMAFCA
RIGHT OF WAY OR EASEMENT:**

Symon maza 9-10-02
(FOR AMAFCA) (DATE)

APPROVED FOR ROUGH GRADING

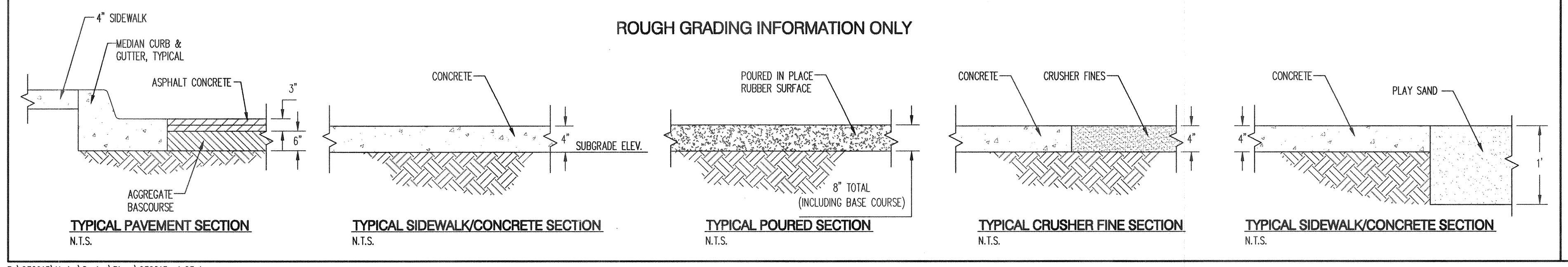
CITY HYDROLOGY (DATE)

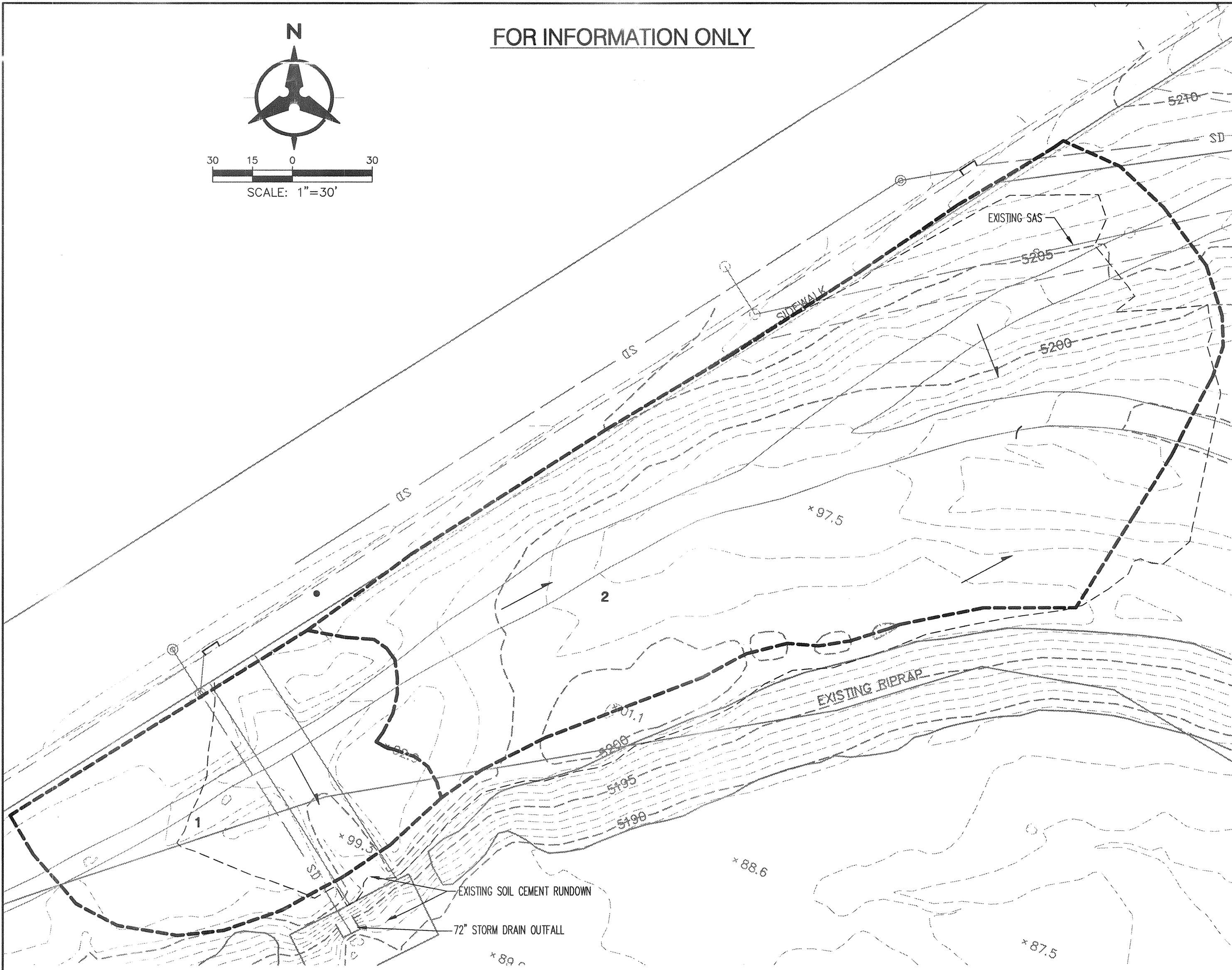
Bohannon & Huston
Court yard | 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING & SPATIAL DATA & ADVANCED TECHNOLOGIES

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

**TUSCANY PARK
FINAL GRADING PLAN**

| | | | |
|-------------------------|------------------------|-------------|-------------|
| Design Review Committee | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
| SEP 26 2002 | SEP 26 2002 | | |
| City Project No. | Zone Map No. | Sheet | Of |
| | A-12 | 2 | 12 |





GRADING AND DRAINAGE PLAN

TUSCANY PARK IS LOCATED ON THE NORTH SIDE OF THE CALABACILLAS ARROYO NEXT TO BANDELER DRIVE BETWEEN UNDER BOULEVARD AND GOLF COURSE ROAD. EXISTING IMPROVEMENTS TO THE ARROYO, INCLUDING THE ADJACENT DROP STRUCTURE AND RIPRAP SLOPE WERE DESIGNED TO LIMIT THE CALABACILLAS 100-YEAR FLOODPLAIN TO A LEVEL BELOW THE RIPRAP. THIS MEANS THAT THE SITE IS FREE FROM FLOODING DUE TO THE ARROYO. TO THE NORTH AND WEST BANDELER DRIVE BORDERS THE SITE. FROM AN EARLIER PHASE IN THE DEVELOPMENT OF THE UPSTREAM NEIGHBORHOOD (TUSCANY WEST SUBDIVISION) THERE IS A SOIL CEMENT RUNDOWN NEXT TO A 72" STORM DRAIN OUTFALL ON THE SITE. BASED ON THE DRAINAGE REPORT FOR TUSCANY WEST SUBDIVISION UNITS I & II, PREPARED BY COMMUNITY SCIENCES CORPORATION AND APPROVED IN 1997, THE STORM DRAIN OUTFALL IS SUFFICIENT FOR THE 100-YEAR FLOW RATES. THEREFORE THE SOIL CEMENT RUNDOWN IS NO LONGER NECESSARY AND WILL BE REMOVED WHERE NECESSARY FOR THE SITE GRADING. ALL DRAINAGE CALCULATIONS ARE DONE IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 22.2. THE DESIGN STORM IS THE 100-YEAR 6-HOUR STORM IN ZONE 1 (DPM CHAPTER 22, FIGURE A-1).

EXISTING CONDITIONS

UNDER EXISTING CONDITIONS THE PROJECT SITE FOR TUSCANY PARK HAS TWO SUBBASINS. SUBBASIN 1 IS A SMALL AREA WHICH DRAINS TO THE EXISTING SOIL CEMENT DROP RUNDOWN. SUBBASIN 2 IS PART OF A LARGER SUBBASIN THAT DRAINS TO A SMALL SWALE LEADING TO THE CALABACILLAS ARROYO. THERE IS A 72" STORM DRAIN PIPE AND A SOIL CEMENT RUNDOWN THAT RUNS THROUGH SUBBASIN 1 AND OUTFALLS TO THE CALABACILLAS ARROYO. THE SOIL CEMENT AREA IS ASSIGNED A LAND TREATMENT VALUE OF D, WHILE THE REST OF SUBBASIN 1 IS REGARDED AS TREATMENT TYPE C. ALL OF SUBBASIN 2 IS TREATMENT TYPE C. THERE IS ALSO A SANITARY SEWER LINE RUNNING UNDER THE PARKING LOT AREA. IT IS DEEP ENOUGH THAT THE GRADING FOR THE PARKING LOT STILL ALLOWS AT LEAST FIFTEEN FEET OF COVER. MOST OF THE SITE APPEARS TO HAVE BEEN GRADED WITH THE CONSTRUCTION OF THE DRAINAGE STRUCTURES, BANDELER DRIVE, AND/OR THE RIP RAP BANK PROTECTION. HYDROLOGIC CALCULATIONS AND FLOW RATES CAN BE SEEN IN THE ADJACENT TABLE.

DEVELOPED CONDITIONS

THE PROPOSED CONDITIONS MAINTAIN RELATIVELY THE SAME SUBBASINS AS DESCRIBED FOR EXISTING CONDITIONS, EXCEPT SUBBASIN 2 IS BROKEN INTO SUBBASINS 2a AND 2b FOR DEVELOPED CONDITIONS. SUBBASIN 1 IS APPROXIMATELY THE SAME AREA AS EXISTING WITH ONLY SMALL CHANGES IN THE BOUNDARY. ALTHOUGH SOME OF THE SOIL CEMENT STRUCTURE WILL BE REMOVED, THE PORTION THAT DROPS INTO THE CHANNEL WILL REMAIN. THIS IS THE LOCATION TO WHICH SUBBASIN 1 DRAINS. SUBBASIN 2a IS ALL OF THE EXISTING CONDITIONS BASIN 2 EXCEPT THE PARKING LOT AREA. SUBBASIN 2b DRAINS TO A SWALE ON THE SOUTH SIDE OF THE PARK AND THEN TO THE SAME SMALL SWALE THAT LEADS TO THE CALABACILLAS ARROYO. AN UNDERDRAIN SYSTEM (2" PIPES) THROUGH THE FENCE FOOTING AT THE SOUTH EAST EDGE OF THE PLAY AREA WILL ALLOW FLOWS INTO THE SWALE. IF THE SYSTEM IS OVERLOADED, THEN FLOWS COULD POTENTIALLY FLOW OVER THE FOOTING INTO THE SWALE. SUBBASIN 2b IS THE PARKING LOT AND THE DISTURBED AREA UPSTREAM OF THE PARKING LOT. THE PARKING LOT FLOWS ARE COLLECTED BY A SWALE, WHICH RUNS WEST TO EAST ACROSS THE PARKING LOT. THERE IS A CURB OPENING IN THE EASTERN CURB THAT ALLOWS FLOWS INTO A COBBLE SWALE, DRAINING TO THE NATURAL SWALE, WHICH LEADS TO THE CALABACILLAS ARROYO. THE CURB ON THE SOUTH END OF THE PARKING LOT IS A HEADER CURB, WHICH IS EVEN WITH THE ASPHALT AND SIDEWALK. IT TRANSITIONS BACK TO A 6" CURB AS IT GOES NORTH ON EACH SIDE. THIS ALLOWS THE PARKING LOT AND SIDEWALK TO BE AT THE SAME ELEVATION IN THIS AREA WHICH ACCOMMODATES HANDICAP PARKING SPACES WHILE ALSO ADDRESSING DRAINAGE REQUIREMENTS. THE PARKING LOT FROM THIS POINT SLOPES NORTH AT 2% TO THE DRAINAGE SWALE.

THERE IS AN INCREASE IN THE FLOW RATES FOR THE ENTIRE SITE DUE TO AN INCREASE IN IMPERVIOUS AREA. THE INCREASED FLOW RATES DOWN THE SOIL CEMENT DROP STRUCTURE ARE INSIGNIFICANT COMPARED TO THE CAPACITY OF THE STRUCTURE. THE FLOWS COMING FROM SUBBASIN 2 AND 3 WILL BE CONTROLLED WITH THE COBBLED SWALES AND USED IN WATER HARVESTING FOR THE SMALL ARROYO. HYDROLOGIC CALCULATIONS AND COMPUTED FLOW RATES ARE SHOWN IN THE ADJACENT TABLE. THE FLOW RATES, DEPTHS, AND VELOCITIES OF THE SWALES ARE ALSO SHOWN. DUE TO THE LOW VELOCITIES, A CUT-OFF WALL WAS NOT USED AT THE END OF THE COBBLE.

ON THE EASTERN END OF THE SITE, FILL WILL BE REQUIRED TO KEEP THE ENTRANCE ROADWAY AT A REASONABLE GRADE. SMALL RETAINAGE STRUCTURES (3 FEET MAXIMUM) WILL BE NEEDED NORTH OF THE PARKING LOT AND IN THE TRANSITION BETWEEN THE SIDEWALK AND REVEGETATED AREA ON THE SOUTH WEST SIDE OF THE PARKING LOT.

P:\Q30015\Hydro\Design\Plans\Q30015drain02.dwg
Sep 10, 2002 - 3:51pm

FOR INFORMATION ONLY

EXISTING BASINS

| EXISTING CONDITIONS | | | | | | |
|----------------------|------------------|----------------------------------|------|------|------|----------------|
| | Total Area (Ac.) | Areas of Land Treatments (Acres) | | | | Flowrate (cfs) |
| Subbasin 1 | 0.25 | A | B | C | D | 0.8 |
| Subbasin 2 | 0.92 | 0.00 | 0.00 | 0.20 | 0.05 | 2.7 |
| DEVELOPED CONDITIONS | | | | | | |
| | Total Area (Ac.) | Areas of Land Treatments (Acres) | | | | Flowrate (cfs) |
| Subbasin 1 | 0.24 | A | B | C | D | 0.8 |
| Subbasin 2a | 0.65 | 0.00 | 0.00 | 0.15 | 0.09 | 1.9 |
| Subbasin 2b | 0.27 | 0.00 | 0.00 | 0.14 | 0.13 | 1.0 |

| Analyzer Report East Swale Trapezoidal (2% Slope) | |
|---|-----------|
| Manning's Equation | |
| Output Results | |
| Flow Rate | 1.00 cfs |
| Depth | 0.14 ft |
| Velocity | 2.85 ft/s |
| Top Width | 2.87 ft |
| Critical Depth | 0.18 ft |
| Super Critical | |

| Analyzer Report South Swale Trapezoidal (2% Slope) | |
|--|-----------|
| Manning's Equation | |
| Output Results | |
| Flow Rate | 1.90 cfs |
| Depth | 0.33 ft |
| Velocity | 1.96 ft/s |
| Top Width | 3.95 ft |
| Critical Depth | 0.26 ft |
| Subcritical | |

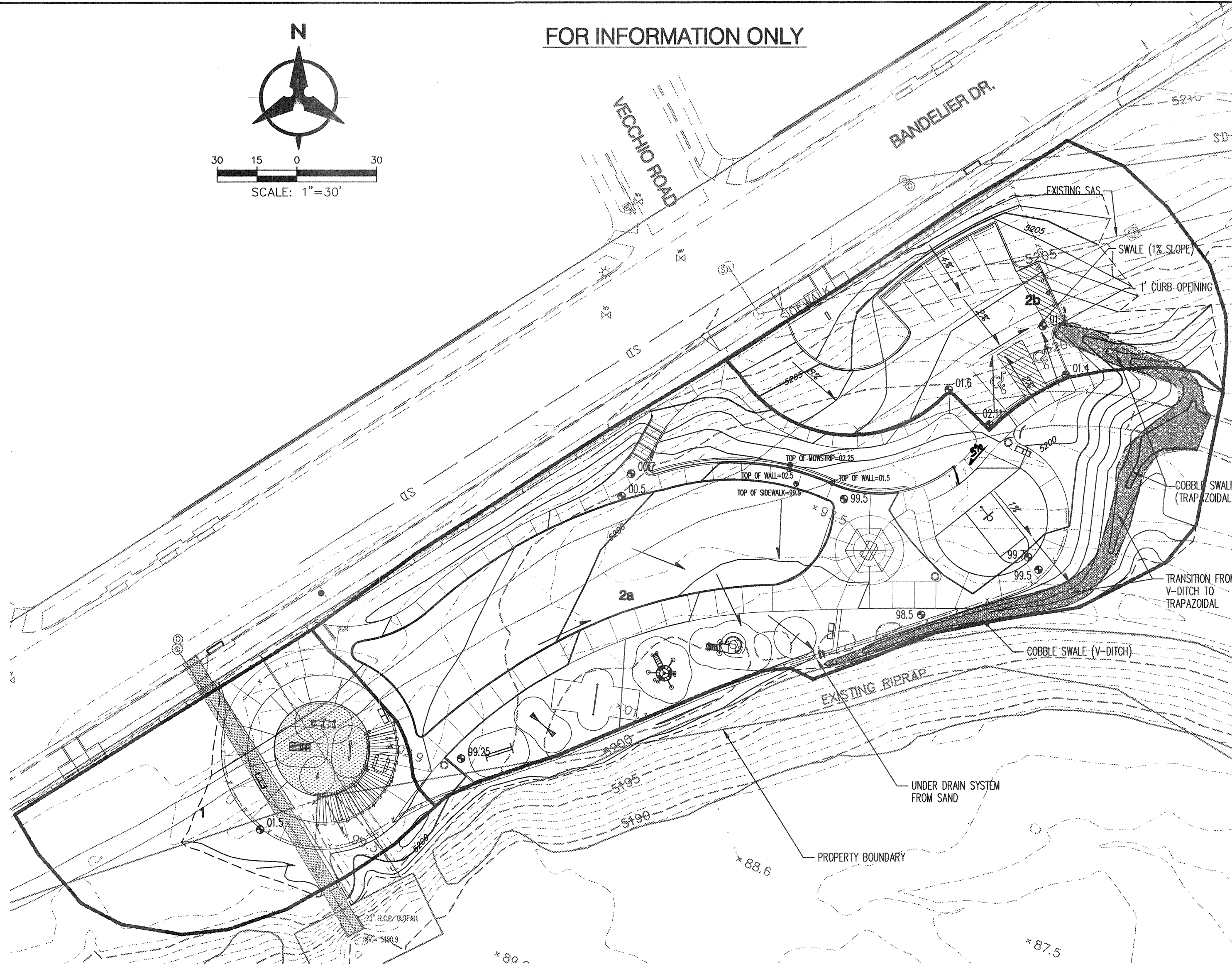
| Analyzer Report South Swale V-Ditch (2% Slope) | |
|--|-----------|
| Manning's Equation | |
| Output Results | |
| Flow Rate | 1.90 cfs |
| Depth | 0.54 ft |
| Velocity | 2.13 ft/s |
| Top Width | 3.27 ft |
| Critical Depth | 0.48 ft |
| Subcritical | |

NOTES

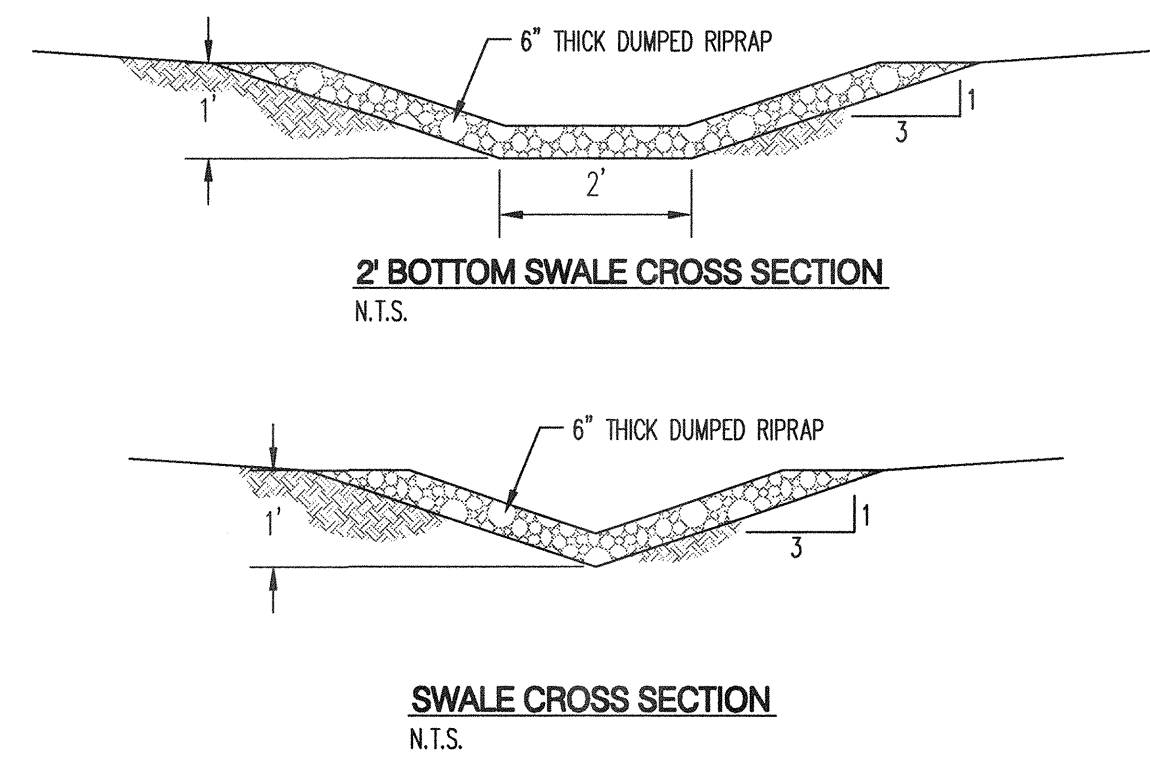
1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48-HOURS PRIOR TO ANY WORK WITHIN THE AMAFCA R/W OR EASEMENT. TEL (505) 884-2215 JERRY LOVATO.
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5. ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. SECTION 1012 NATIVE GRASS SEEDING AS CURRENTLY UPDATED.

APPROVED FOR CONSTRUCTION WITHIN AMAFCA
RIGHT OF WAY OR EASEMENT:

[Signature] 9-10-02
(FOR AMAFCA) (DATE)

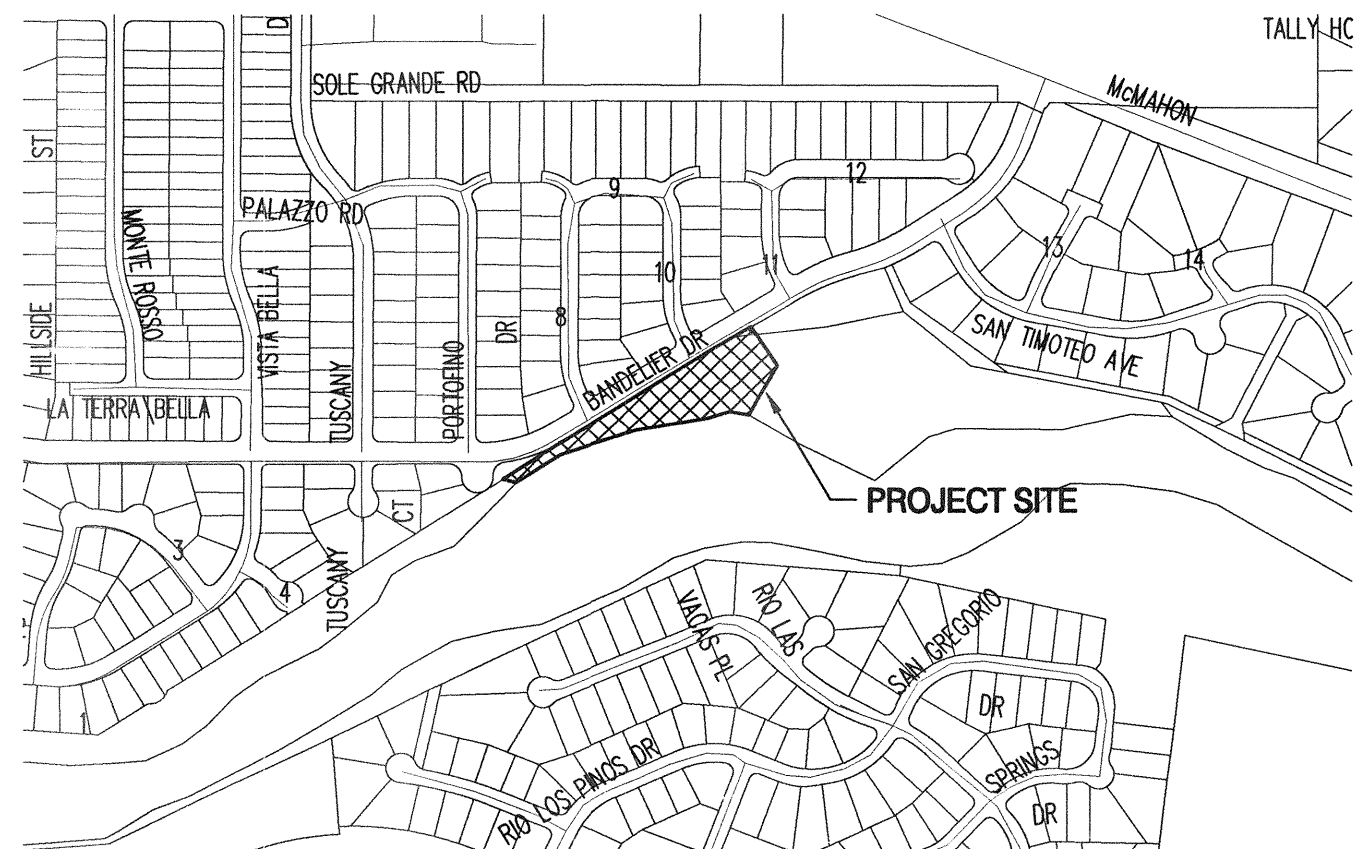


PROPOSED BASINS



LEGEND

- RETAINING WALL
- EXISTING CONTOURS
- EXISTING SPOT ELEVATION
- PROPOSED INDEX CONTOURS
- PROPOSED INTERMEDIATE CONTOURS
- EXISTING DRAINAGE BASIN
- PROPOSED DRAINAGE BASIN
- FLOW
- COBBLE SWALE



VICINITY MAP

Bohannon & Huston
Court yard | 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▴ SPATIAL DATA ▴ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TUSCANY PARK
GRADING & DRAINAGE PLAN
(FOR INFORMATION ONLY)

| | | | |
|-------------------------|------------------------|-------------|-------------|
| Design Review Committee | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
| | | | |
| City Project No. | Zone Map No. | Sheet | Of |
| | A-12 | 2a | 12 |

BHI JOB NO. 030015.001.CWH

Date: 07.09.02

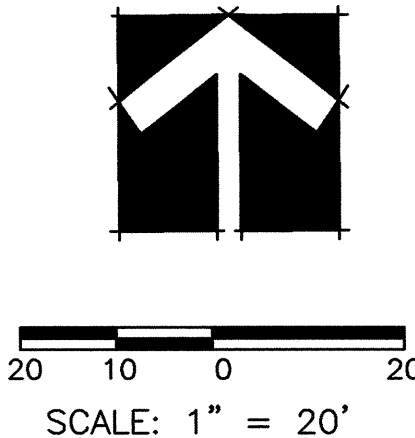
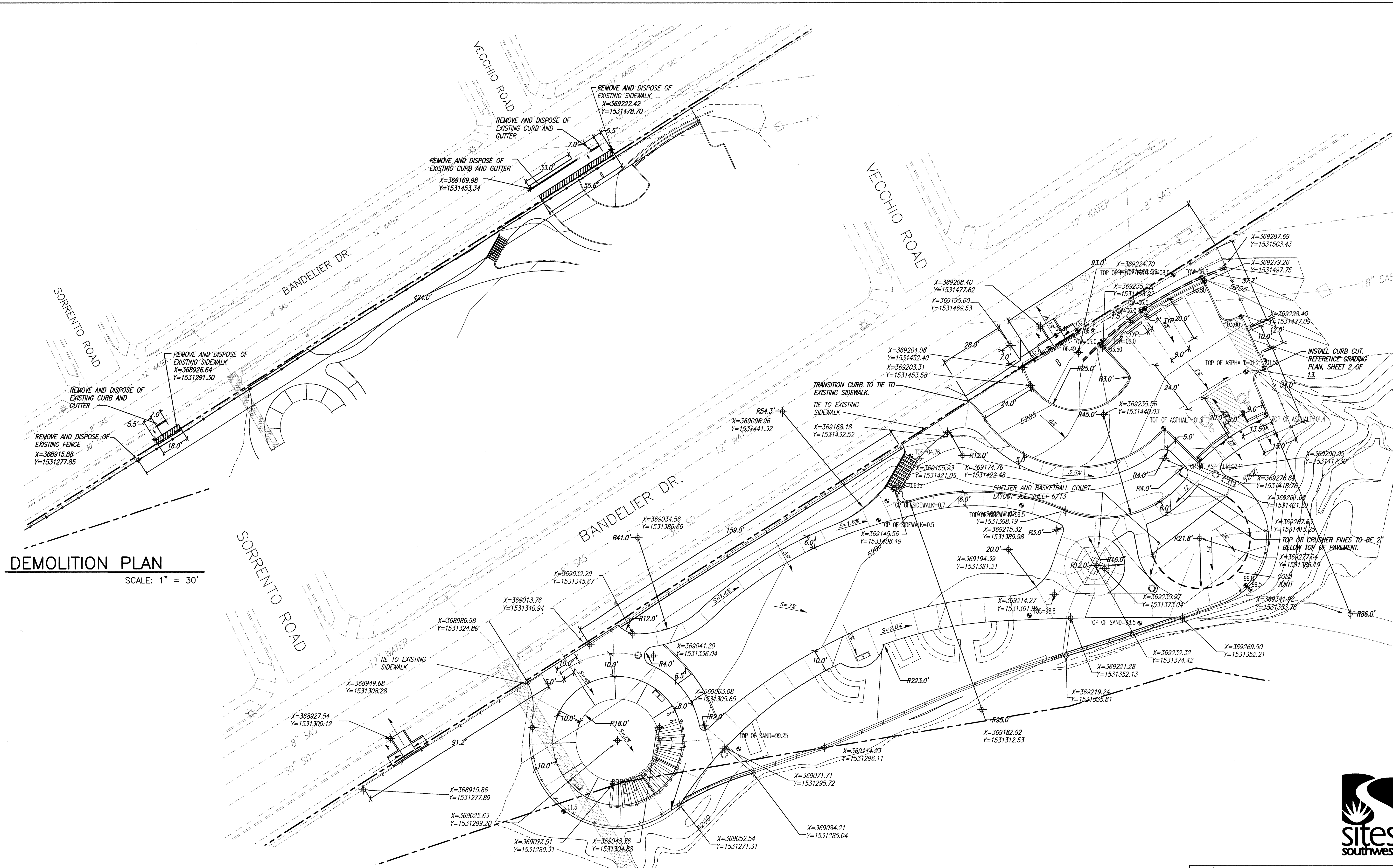
DEMOLITION PLAN
SCALE: 1" = 30'

LAYOUT NOTES
NOTE: SPOT ELEVATIONS ARE PROVIDED FOR REFERENCE ONLY. SEE GRADING PLANS, SHEET 2/13.

COORDINATE DATA
COORDINATE SYSTEM IS BASED ON THE NEW MEXICO MODIFIED STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NAD 27.

PROPOSED COORDINATE POINT
X=402047.56
Y=474843.67

PROPOSED COORDINATES
NOTE: P.O.B. SEE BENCHMARK INFORMATION THIS SHEET.

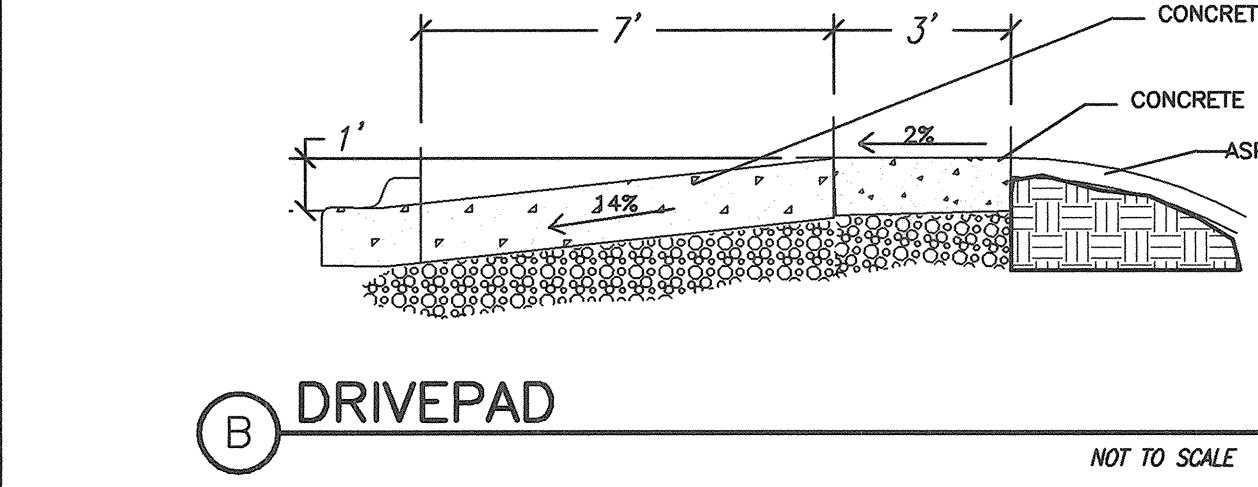
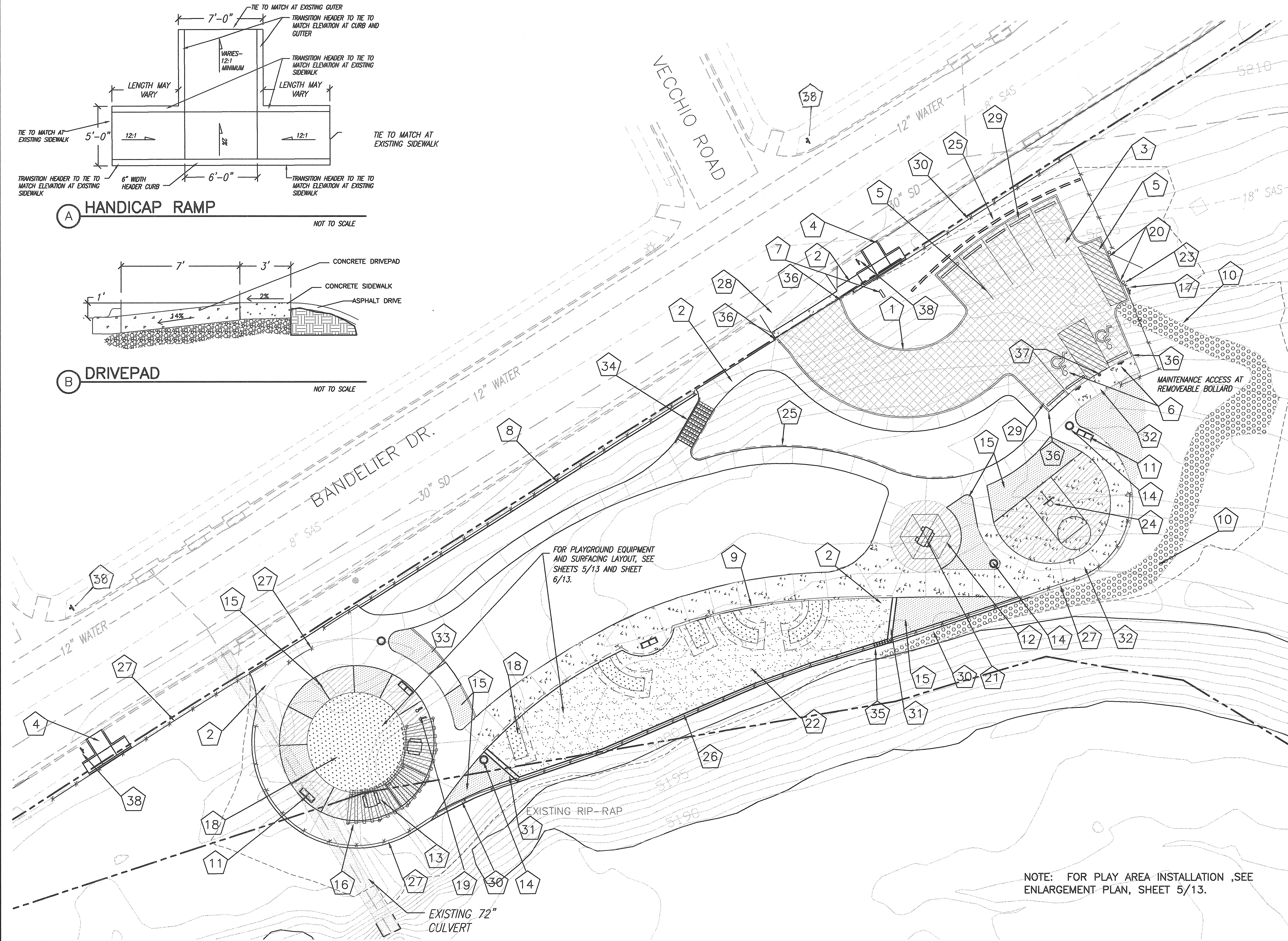


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TUSCANY PARK
LAYOUT AND DIMENSIONING PLAN

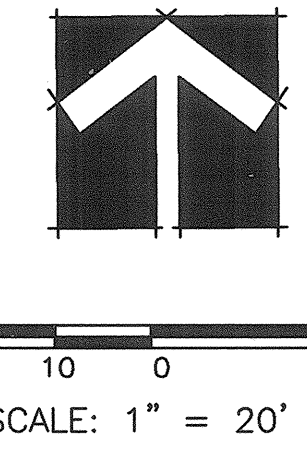
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|--------------------------|------------------------|-------------|-------------|
| Design Review Committee | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
| SEP 26 2002 | SEP 26 2002 | | |
| City Project No. 6868.91 | Zone Map No. A-12 | Sheet 3 | Of 13 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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- ### KEYED CONSTRUCTION NOTES
1. INSTALL 6" HT. MEDIAN CURB AND GUTTER AS PER C.O.A. STD DWG #2415.
 2. INSTALL 4" DEPTH CONCRETE SIDEWALK AS PER C.O.A. STD DWG #2430. INSTALL WITH SAWCUT JOINTS.
 3. INSTALL PARKING LOT PAVING AS PER DETAIL E/10.
 4. INSTALL HANDICAP RAMP AS PER DETAIL A/4.
 5. INSTALL PARKING LOT STRIPING AS PER DETAIL C/10.
 6. INSTALL HANDICAP SIGN AND STRIPING AS PER DETAIL C & D/10.
 7. INSTALL STANDARD CITY OF ALBUQUERQUE PARK SIGN.
 8. INSTALL 48" HEIGHT CHAIN LINK FENCING AS PER COA STD. DETAIL 2252. SUBSTITUTE SPECIFIED CHAIN LINK MESH WITH 1" DIAMOND 9 GAUGE GALVANIZED CHAIN LINK MESH.
 9. INSTALL TURN DOWN SLAB AS PER C.O.A. STD DWG. # 2728.
 10. INSTALL 6" DEPTH SANTA FE BROWN COBBLE AT SWALE.
 11. INSTALL BENCHES AS PER MANUFACTURER'S SPECIFICATIONS. SEE SITE FURNISHINGS LEGEND.
 12. INSTALL SHADE STRUCTURE AS PER MANUFACTURER'S SPECIFICATIONS. SEE SITE FURNISHINGS LEGEND. MODIFY AS PER DETAIL G/11.
 13. INSTALL RECYCLED PLASTIC PICNIC TABLE AS PER MANUFACTURER'S RECOMMENDATIONS, TYP. SEE SITE FURNISHINGS LEGEND.
 14. INSTALL TRASH RECEPTACLE AS PER MANUFACTURER'S SPECIFICATIONS. SEE SITE FURNISHINGS LEGEND.
 15. INSTALL 4" DEPTH OF SANTA FE BROWN CRUSHER FINES.
 16. INSTALL STEEL RAMADA AS PER DETAILS, SHEET 11 OF 13. CORRUGATED METAL PIPE SHALL BE GALVANIZED. ALL GALVANIZED PARTS TO BE TREATED WITH (2) COATS ULTRASHIELD, AS MANUFACTURED BY DUNN EDWARDS, OR APPROVED EQUAL. NO PRIMER SHALL BE APPLIED. CLEAN ALL GALVANIZED PARTS WITH SOLVENT, AS PER MANUFACTURER'S SPECIFICATIONS.
 17. INSTALL "NO PARKING" SIGN #R 7-1 AS PER SHEET 11 OF 12. INSTALL STRIPING AS PER DETAIL C/10.
 18. INSTALL POURED IN PLACE RESILIENT SURFACING AS PER MANUFACTURER'S RECOMMENDATIONS AND AS PER DETAIL A/10. SEE MATERIALS LEGEND.
 19. INSTALL BIKE RACK AS PER MANUFACTURER'S RECOMMENDATIONS. SEE MATERIALS LEGEND.
 20. INSTALL DEPRESSED GUTTER AS PER COA STD DETAIL #2415.
 21. INSTALL ADA PICNIC TABLE AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SITE FURNISHINGS LEGEND.
 22. INSTALL 12" UNCOMPRESSED DEPTH FINE SAND AS PER CPSC DOCUMENT #3005, PLAYGROUND SURFACING MATERIALS, INCLUDING APPENDIX B.
 23. INSTALL PIPE GATE AS PER COA STD DETAIL# 2251
 24. INSTALL BASKETBALL POLE AS PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET 6 OF 13
 25. INSTALL RETAINING WALL. SEE DETAIL B/10.
 26. INSTALL CONCRETE EDGER AND FENCE AT PLAY AREA AS PER DETAIL I/10
 27. INSTALL CHAIN LINK FENCING WITH SIDEWALK AS PER DETAIL H/10
 28. INSTALL DRIVEPAD AS PER COA STD DWG #2425 AND DETAIL B/4.
 29. INSTALL CONCRETE BUMPER STOPS AS PER DETAIL G/10
 30. INSTALL CONCRETE MOWSTRIP WITH FENCE AS PER DETAIL F/10
 31. INSTALL CONCRETE EDGER AT SAND PLAY AREA AS PER COA STD DETAIL 2930
 32. INSTALL 6" DEPTH CONCRETE SIDEWALK AS PER COA STD DWG #2430.
 33. INSTALL CONCRETE MOWSTRIP AS PER COA STD DWG #2726.
 34. INSTALL STAIRS AND RAIL AS PER DETAILS F AND H/11.
 35. INSTALL WEEP HOLES IN EDGER AT PLAY AREA AS PER DETAIL I/10.
 36. INSTALL CURB TAPER 1' FROM END OF CURB
 37. INSTALL REMOVEABLE POST AS PER COA STD DWG #2250.
 38. INSTALL (2) TRAFFIC SIGNS. INSTALL (1) W11-2, AND (1) W-17-7P, BLACK ON YELLOW. (arrow to point down) INSTALL 12" TO 18" FROM BACK OF CURB.

- ### MATERIALS LEGEND
- CHAIN LINK FENCING
 - POURED IN PLACE RESILIENT SURFACING AS MANUFACTURED BY ROBERTSON INDUSTRIES. COLOR: BEIGE AND BLACK.
 - PLAY AREA SAND-12" DEPTH UNCOMPRESSED FINE SAND
 - CRUSHER FINES SURFACING
 - ASPHALT PAVING AT PARKING LOT
 - COBBLE SWALE
 - 6" DEPTH CONCRETE SIDEWALK
 - PIGMENTED CONCRETE SIDEWALK. DAVIS COLORS GRAPHITE, 2 LBS 8084, OR APPROVED EQUAL.



- ### SITE FURNISHINGS LEGEND
- 2- LANDSCAPE STRUCTURES 5' RECYCLED PLASTIC PICNIC TABLE, MODEL LSI 113139G, INGROUND MOUNT. COLOR: MAROON. CONTACT: DAVID SMITH, EXERPLAY 281-0151.
 - 4- BENCH- LANDSCAPE STRUCTURES 5' RECYCLED PLASTIC BENCH, W/(3) ARMS. MODEL #LSI 111640C, INGROUND MOUNT. ARM REST MODEL #LSI 114767A. COLOR: MAROON. CONTACT: DAVID SMITH @ EXERPLAY, 281-0151.
 - 2- BIKE RACK- BOLLARD CYCLOOPS, MODEL #2171-E-C, AS MANUFACTURED BY TIMBER FORM. FACTORY PRIMED, EMBEDDED. CONTRACTOR SHALL APPLY (2) COATS INDUSTRIAL ENAMEL HS AS MFG BY SHERWIN WILLIAMS. COLOR: CRIMSON RED SW 2906. CONTACT: MIKE WOODS W/ WOODS SITE 1-888-688-2132.
 - 3- TRASH RECEPTACLE- MC CLINTOCK METAL TRASH RECEPTACLE, MODEL #RSO-25, SURFACE MOUNT. COLOR: GREEN. CONTACT: MC CLINTOCK METAL 1-800-350-3588.
 - 1- ACCESSIBLE PICNIC TABLE- LANDSCAPE STRUCTURES 7' RECYCLED PLASTIC PICNIC TABLE- MODEL# LSI 113139K SURFACE MOUNT. COLOR: MAROON. CONTACT: DAVID SMITH @ EXERPLAY, 281-0151.
 - 1- SHADE SHELTER-LITCHFIELD MODEL #8016 HEXAGONAL SHADE STRUCTURE W/PRE-CUT METAL ROOF, FACTORY PRIMED. CONTRACTOR SHALL PAINT SHADE SHELTER W/ TWO COATS INDUSTRIAL ENAMEL HS AS MFG BY SHERWIN WILLIAMS. POST COLOR: PERENNIAL GREEN SW 2934. ROOF COLOR: CRIMSON RED SW 2906. CONTACT: STEVE WIGFIELD W/CHURCHICH RECREATION. 897-7962.
- NOTE: MANUFACTURER SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY REQUIREMENTS FOR SHELTER INSTALLATION, INCLUDING PERMITS, ENGINEER'S STAMPS, ETC. MANUFACTURER SHALL SUBMIT STAMPED SHOP DRAWINGS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.

- ### CONSTRUCTION NOTES
- ALL CHAIN LINK SHALL BE GALVANIZED 1" X 1" DIAMOND PATTERN MESH.
- ALL CONCRETE FOR SIDEWALKS, MOWSTRIPS AND EDGER AT PLAY AREA SHALL BE PIGMENTED WITH DAVIS COLORS 1/2 LBS 605B, COLOR: DUNE, OR APPROVED EQUAL, UNLESS OTHERWISE SHOWN ON THE PLAN.
- ALL CONCRETE FOR FOOTINGS ON EMBEDDED OR INGROUND MOUNTED SITE FURNISHINGS SHALL BE PIGMENTED TO MATCH SURROUNDING SIDEWALK.
- ALL ITEMS TO BE PAINTED SHALL BE PRIMED AS PER THE PAINT MANUFACTURER'S RECOMMENDATIONS.

| AS-BUILT INFORMATION | | | | BENCH MARKS | | | | SURVEY INFORMATION | | | | LANDSCAPE ARCHITECT'S SEAL | | | | | |
|----------------------|--|------|--|--|--|------|--|-----------------------------------|--|------|--|-----------------------------------|--|------|--|-----------------------------------|--|
| CONTRACTOR | | DATE | | BENCHMARK INFO: STATION IS A 3 1/4" ALUMINUM TABLE, SET IN CONCRETE, FLUSH WITH THE TOP OF CURB. STAMPED ACS, 2-B12, 1985. LOCATED AT THE INTERSECTION OF IRVING BLVD AND TIMAN AVE. NW. X= 368662.22 Y=1529474.59 ELEV= 5273.829 HORIZONTAL DATUM NAD27 VERTICAL DATUM NGVD29 | | NO. | | BY | | DATE | | NO. | | BY | | DATE | |
| INSPECTOR'S MARK | | DATE | | INSPECTOR'S FIELD VERIFICATION BY | | DATE | | INSPECTOR'S FIELD VERIFICATION BY | | DATE | | INSPECTOR'S FIELD VERIFICATION BY | | DATE | | INSPECTOR'S FIELD VERIFICATION BY | |
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CITY OF ALBUQUERQUE
PARKS AND RECREATION DEPARTMENT
DESIGN AND DEVELOPMENT GROUP

TUSCANY PARK
CONSTRUCTION PLAN

Design Review Committee

City Engineer Approval

Mo./Day/Yr.

Mo./Day/Yr.

City Project No.

Zone Map No.

Sheet

Of

6868.91

A-12

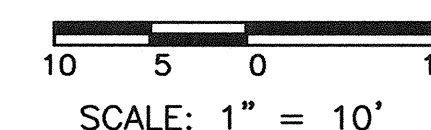
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13



| SCREEN SIZE | PERCENT PASSING THROUGH SCREEN |
|-------------|--------------------------------|
| #16 | 100 |
| #30 | 98 |
| #50 | 62 |
| #100 | 17 |
| #200 | 0-1 |

POURED IN PLACE RESILIENT SURFACING TO BE AS MANUFACTURED BY ROBERSON INDUSTRIES



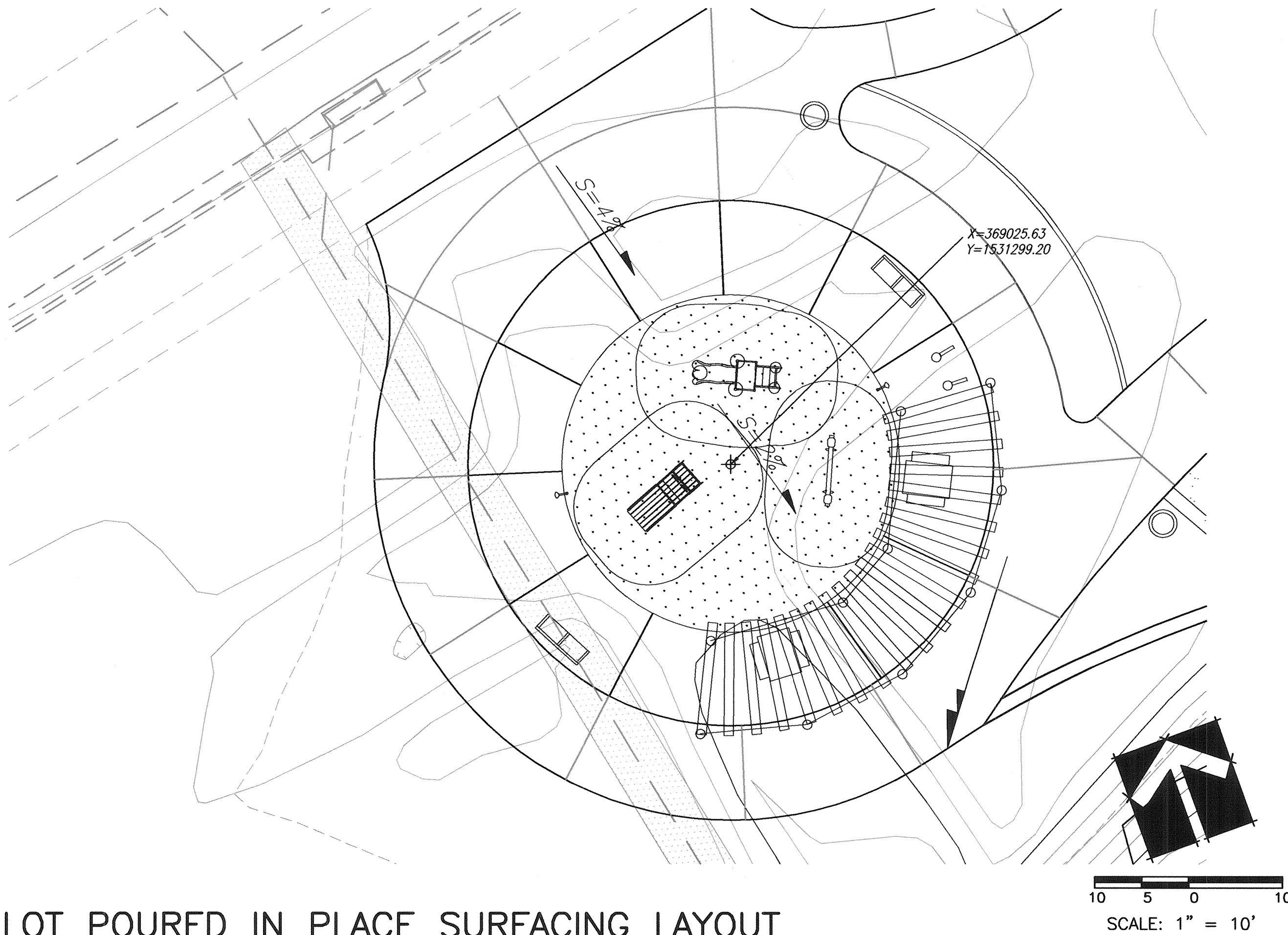
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| <h2 style="margin: 0;">TUSCANY PARK</h2> <h2 style="margin: 0;">PLAY AREA ENLARGEMENT PLAN</h2> | | | | |
| Design Review Committee  | City Engineer Approval  | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr. |
| City Project No. <div style="font-size: 24pt; font-weight: bold;">6868.91</div> | Zone Map No. <div style="font-size: 24pt; font-weight: bold;">A-12</div> | Sheet <div style="font-size: 24pt; font-weight: bold;">5</div> | Of <div style="font-size: 24pt; font-weight: bold;">13</div> | |

| SURVEY INFORMATION | | BENCH MARKS | | AS-BUILT INFORMATION | |
|--------------------|----|-------------|---|--|--------------------------------------|
| NO. | BY | DATE | BENCHMARK INFO: | CONTRACTOR | DATE |
| | | | STATION IS A 3 1/4" ALUMINUM TABLET, SET IN CONCRETE, FLUSH WITH THE TOP OF CURB. STAMPED ACS, 2-B12, 1985. LOCATED AT THE INTERSECTION OF IRVING BLVD AND TIMAN AVE. NW. X= 368662.22 Y=1529474.59 ELEV= 5273.829 HORIZONTAL DATUM NAD27 VERTICAL DATUM NGVD29 | WORK STARTED BY ACCEPTANCE BY FIELD DRAWINGS CORRECTED BY | DATE DATE DATE DATE DATE |
| | | | | RECORDED BY | DATE |
| | | | | NO. | |

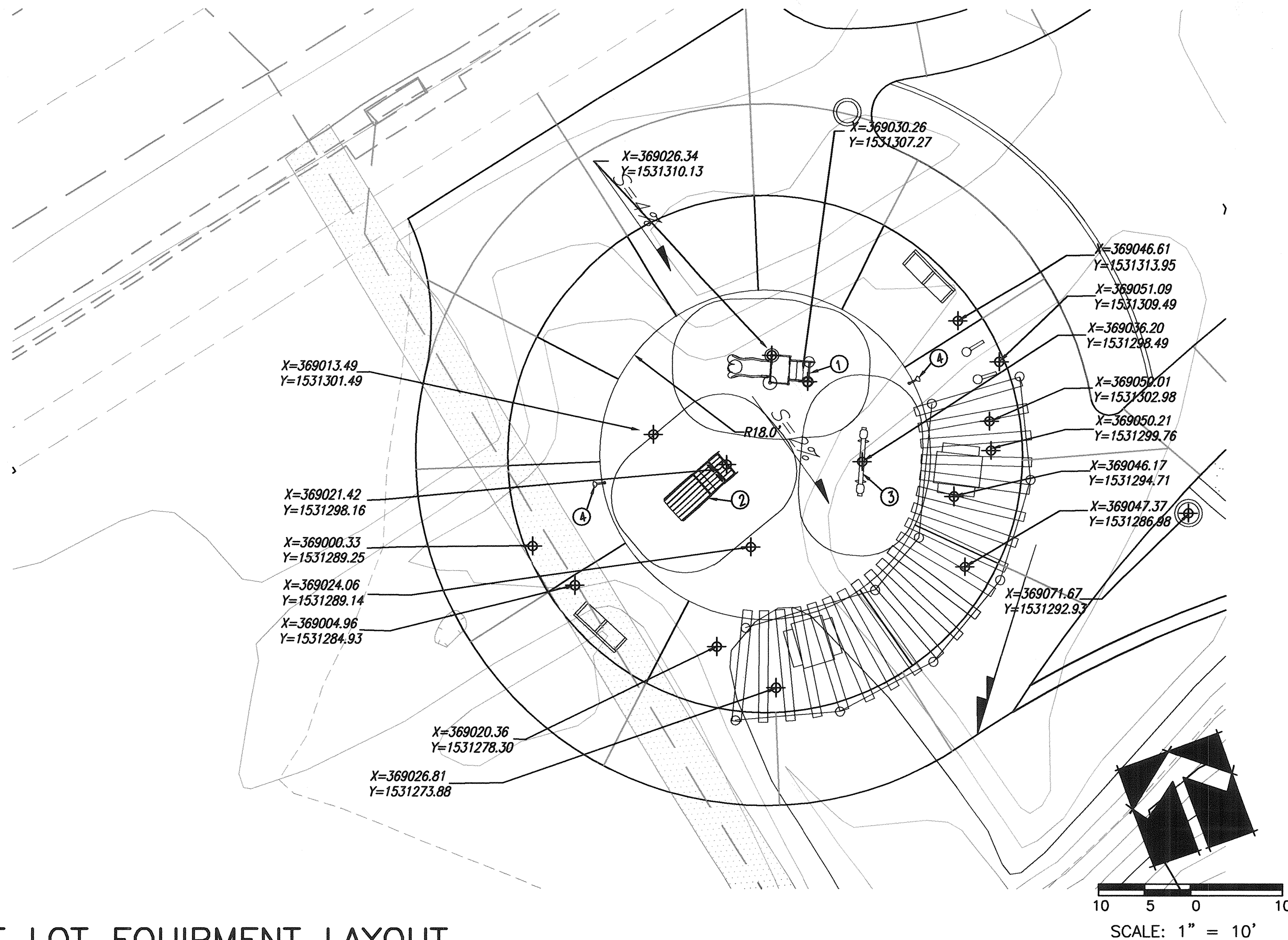
LANDSCAPE ARCHITECT'S SEAL

STATE OF NEW MEXICO
THOMAS A. GAY
No. 240
REGISTERED
LANDSCAPE ARCHITECT
9-11-02

[illegible]



TOT LOT POURED IN PLACE SURFACING LAYOUT



TOT LOT EQUIPMENT LAYOUT

PLAY AREA CONSTRUCTION NOTES

ALL PLAYGROUND EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS, ASTM SPECIFICATIONS AND CPSC GUIDELINES FOR PLAYGROUND SAFETY. SHOULD FIELD CONDITIONS CONFLICT WITH PROPER INSTALLATION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION, PRIOR TO INSTALLATION OF EQUIPMENT.

CONTRACTOR SHALL PROVIDE A THIRD PARTY AUDIT OF THE INSTALLATION OF ALL PLAY EQUIPMENT FOR CPSC AND ASTM COMPLIANCE PRIOR TO INSTALLATION OF POURED IN PLACE SURFACING. AUDIT TO BE PERFORMED BY N.P.S.I. CERTIFIED PLAYGROUND AUDITOR. ONCE THE AUDIT HAS CONFIRMED THAT THE PLAY EQUIPMENT HAS BEEN INSTALLED PROPERLY, THE PROJECT MANAGER SHALL NOTIFY THE CONTRACTOR THAT PLAY AREA INSTALLATION WORK MAY CONTINUE. POURED IN PLACE RESILIENT SURFACING SHALL BE INSTALLED AND AUDITED FOR ASTM COMPLIANCE. WRITTEN RESULTS OF AUDIT TO BE PROVIDED TO CITY PROJECT MANAGER PRIOR TO FINAL PROJECT ACCEPTANCE.

KEYED TOT LOT PARTS LIST

KEY # PLAY EQUIPMENT AS MANUFACTURED BY GAMETIME COMPANY. CONTACT GABRIEL GARCIA AT CONTINENTAL LEISURE SALES (505) 899-6892.

| ITEM NUMBER | DESCRIPTION | COLOR |
|-------------|-------------|-------------------|
| 1 | 18284 | LITTLE FOOT SLIDE |

PLAY EQUIPMENT AS MANUFACTURED BY PLAYWORLD SYSTEMS. CONTACT ED REED AT PLAYWELL GROUP (505) 899-1762.

| ITEM NUMBER | DESCRIPTION | COLOR |
|-------------|-------------|----------------------------|
| 2 | ZZXX9510 | SPRING MOUNT WOODIE PICKUP |
| 3 | ZZXX0650 | WAVE RIDER SEESAW |

PLAY EQUIPMENT AS MANUFACTURED BY LANDSCAPE STRUCTURES. CONTACT DAVID SMITH AT EXERPLAY (505) 281-0151.

| ITEM NUMBER | DESCRIPTION | COLOR |
|-------------|-------------|----------------------------|
| 4 | 113931A | TALK TUBES WITH 40' TUBING |

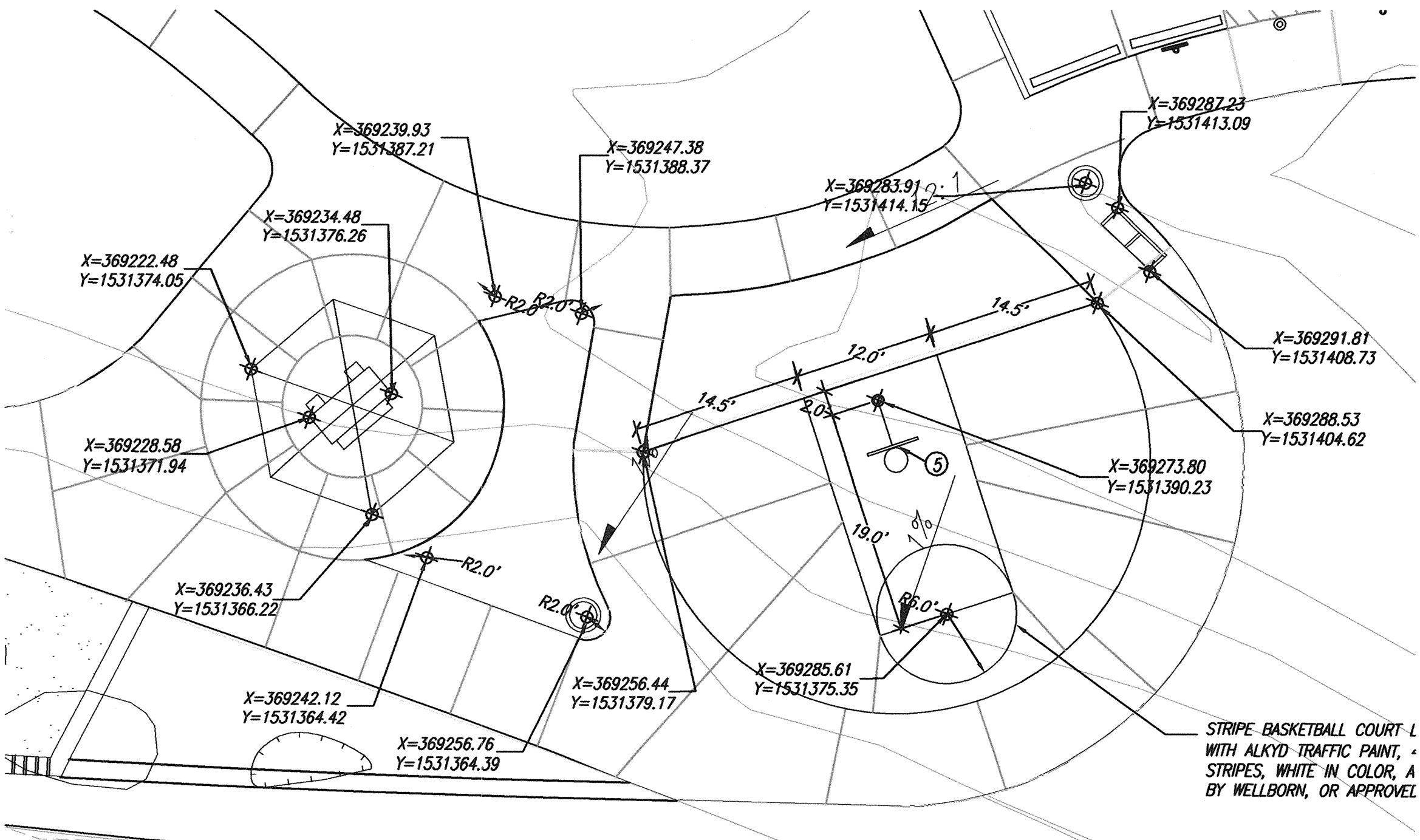
BASKETBALL COURT PARTS LIST

ATHLETIC EQUIPMENT AS MANUFACTURED BY PW ATHLETIC MFG. CO.. CONTACT DAVID SMITH AT EXERPLAY (505) 281-0151.

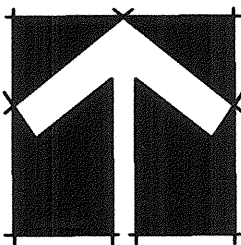
| ITEM NUMBER | DESCRIPTION |
|-------------|-------------|
| 5 | 1523-22-45 |

MATERIALS LEGEND

TOT TURF POURED IN PLACE RESILIENT SURFACING AS MANUFACTURED BY ROBERTSON INDUSTRIES, OR APPROVED EQUAL. INSTALL AS PER DETAIL A/10 COLOR: BEIGE AND BLACK. CONTACT: DAVID SMITH AT EXERPLAY 281-0151.



BASKETBALL COURT LAYOUT



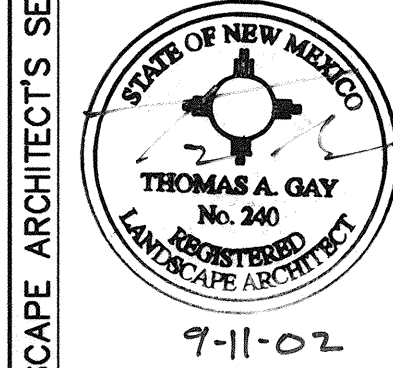
SCALE: 1" = 10'

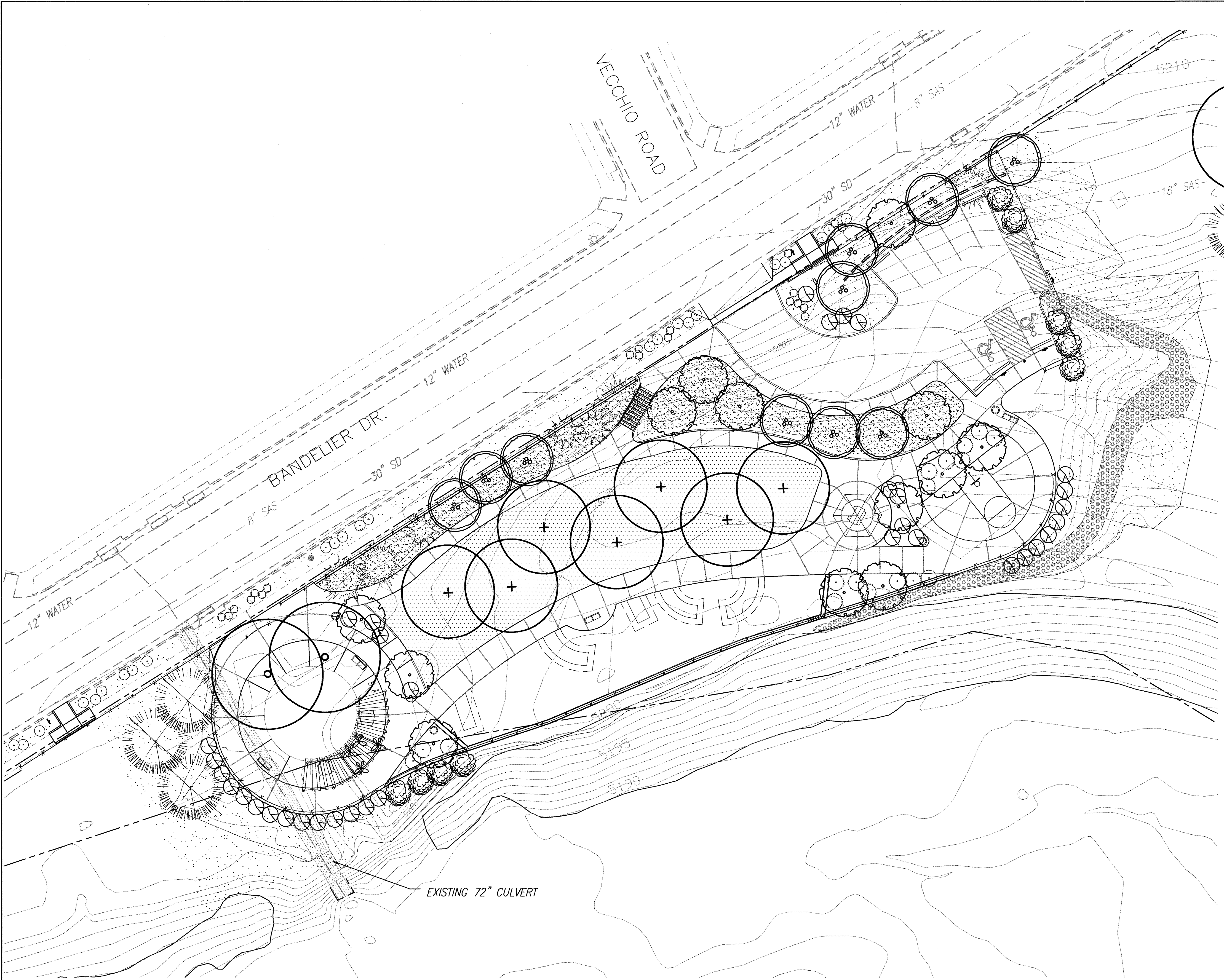
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TUSCANY PARK
PLAY AREA ENLARGEMENT PLAN

| Design Review Committee | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
|-------------------------|------------------------|-------------|-------------|
| SEP 26 2002 | SEP 26 2002 | | |
| DESIGN REVIEW COMMITTEE | CITY ENGINEER | | |

City Project No. 6868.91 Zone Map No. A-12 Sheet 6 Of 13





PLANT LEGEND

INSTALL ALL PLANT MATERIAL AS PER C.O.A. STANDARD DETAILS 2714, 2715, 2716, OR 2717.

| Symbol | Botanical Name | Common Name | Qty | Size/Notes | Ht x Spr |
|--------|--------------------------------|--------------------------------------|-----|---------------------|-----------|
| TREES | | | | | |
| | <i>Celtis occidentalis</i> | HACKBERRY | 2 | 2 1/2" CAL. | 40' x 40' |
| | <i>Quercus macrocarpa</i> | BUR OAK | 7 | 2 1/2" CAL. | 35' x 40' |
| | <i>Pinus nigra</i> | AUSTRIAN PINE | 3 | 8' HT. | 35' x 25' |
| | <i>Vitex agnus-castus</i> | CHASTE TREE | 11 | 15 GAL. | 15' x 15' |
| | <i>Chilopsis linearis</i> | DESERT WILLOW | 10 | 15 GAL. MULTI TRUNK | 20' x 25' |
| | <i>Pinus edulis</i> | PINON PINE | 4 | 8' HT. | 20' x 25' |
| | <i>Juniperus scopulorum</i> | ROCKY MOUNTAIN JUNIPER (FEMALE ONLY) | 3 | 7' ht | |
| SHRUBS | | | | | |
| | <i>Chrysothamnus nauseosus</i> | CHAMISA | 9 | 5 GAL. | 6' x 6' |
| | <i>Fallugia paradoxa</i> | APACHE PLUME | 35 | 5 GAL. | 6' x 6' |
| | <i>Atriplex filifolia</i> | SAND SAGE | 17 | 5 GAL. | 6' x 6' |
| | <i>Atriplex confertifolia</i> | SHADSCALE | 24 | 5 GAL. | 4' x 3' |
| | <i>Wisteria sinensis</i> | CHINESE WISTERIA | 4 | 5 GAL. | 20' |
| | <i>Salvia greggii</i> | CHERRY SAGE | 20 | 1 GAL. | 3' x 3' |

RECLAMATION SEED MIX AS PER C.O.A. STD SPECIFICATIONS. (WEST SIDE MIX) DELETE SALT BUSH SEED AND HAY MULCH. DOUBLE SEED RATE.

NOTE: RECLAMATION SEED SHALL BE INSTALLED TO ALL OTHER DISTURBED AREAS NOT SHOWN ON THE PLANS. INSTALL AS PER COA STANDARD SPECIFICATIONS.

TURFGRASS SOD. INSTALL AS PER COA STANDARD SPECIFICATIONS.

BUFFALO GRASS SOD. INSTALL AS PER COA STANDARD SPECIFICATIONS. BUFFALO GRASS WILL BE UNMOWED.

PLANTING NOTES

TREES IN TURF SHALL BE PLANTED 12' FROM THE EDGE OF THE SIDEWALK

| | | | | | | | |
|------------------------|------|---|------|--------------------|----|----------------------------|------|
| AS-BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | LANDSCAPE ARCHITECT'S SEAL | |
| CONTRACTOR | DATE | BENCHMARK INFO. STATION IS A 3 1/4" ALUMINUM TABLET, SET IN CONCRETE, FLUSH WITH THE TOP OF CURB. STAMPED ACS, 2-B12, 1985. LOCATED AT THE INTERSECTION OF IRVING BLVD AND TIMAN AVE. NW. | DATE | NO. | BY | DATE | DATE |
| INSPECTOR'S | DATE | | DATE | | | | |
| FIELD | DATE | | DATE | | | | |
| VERIFICATION | DATE | | DATE | | | | |
| CORRECTED | DATE | | DATE | | | | |
| MICRO-FILM INFORMATION | | RECORDED BY | | NO. | | | |
| | | | | | | | |



CITY OF ALBUQUERQUE
PARKS AND RECREATION DEPARTMENT
DESIGN AND DEVELOPMENT

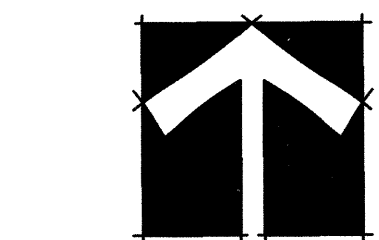
TUSCANY PARK
PLANTING PLAN

| | | | |
|-------------------------|------------------------|-------------|-------------|
| Design Review Committee | City Engineer Approval | Mo./Day/Yr. | Mo./Day/Yr. |
| | | | |
| City Project No. | Zone Map No. | Sheet | Of |
| 6868.91 | A-12 | 7 | 13 |

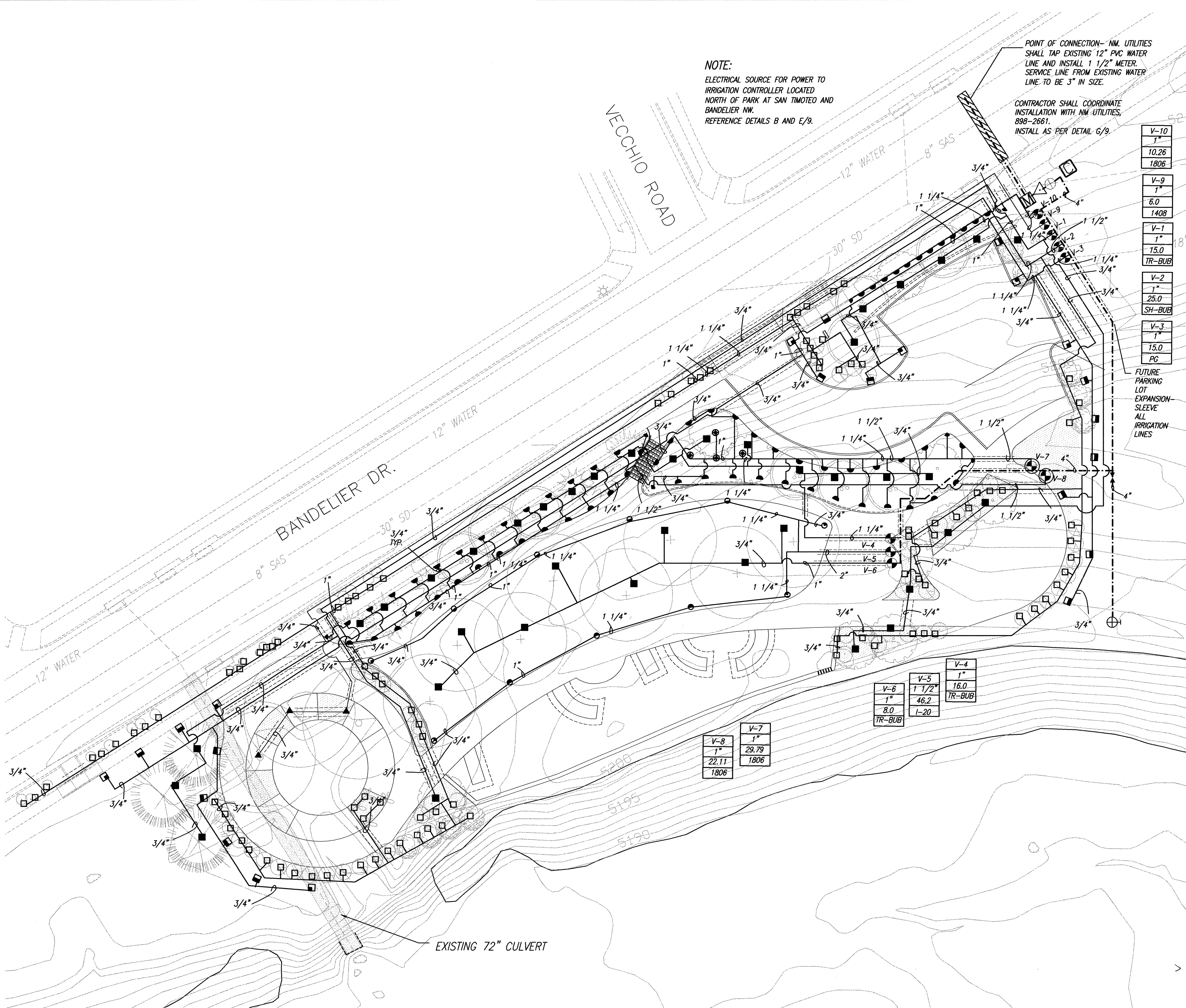
Designed By: TAG
Drawn By: PAA/CBD
Checked By: TAG

REVISIONS
DESIGN

DATE: 09/26/02
DATE: 09/26/02
DATE: 09/26/02



SCALE: 1" = 20'



NOTE:
ELECTRICAL SOURCE FOR POWER TO IRRIGATION CONTROLLER LOCATED NORTH OF PARK AT SAN TIMOTEO AND BANDELIER NW. REFERENCE DETAILS B AND E/9.

POINT OF CONNECTION-- NM. UTILITIES SHALL TAP EXISTING 12" PVC WATER LINE AND INSTALL 1 1/2" METER. SERVICE LINE FROM EXISTING WATER LINE TO BE 3" IN SIZE.

CONTRACTOR SHALL COORDINATE INSTALLATION WITH NM UTILITIES, 898-2661. INSTALL AS PER DETAIL G/9.

| | | | |
|------|----|-------|--------|
| V-10 | 1" | 10.26 | 1806 |
| V-9 | 1" | 6.0 | 1408 |
| V-1 | 1" | 15.0 | TR-BUB |
| V-2 | 1" | 25.0 | SH-BUB |
| V-3 | 1" | 15.0 | PG |

FUTURE PARKING LOT EXPANSION-- SLEEVE ALL IRRIGATION LINES

| | | | |
|-----|--------|------|--------|
| V-4 | 1" | 16.0 | TR-BUB |
| V-5 | 1 1/2" | 46.2 | I-20 |
| V-6 | 1" | 8.0 | TR-BUB |

| | | | |
|-----|----|-------|------|
| V-7 | 1" | 29.79 | 1806 |
| V-8 | 1" | 22.11 | 1806 |

IRRIGATION LEGEND

ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED AS PER CITY OF ALBUQUERQUE STANDARD DRAWING INDICATED OR AS PER THE DETAILS.

- IRRNET 16 STATION CONTROLLER, MIR 5000S MODEL IF-11AC8W-RW-SS IN INTERSPEC ENCLOSURE. DETAIL: A/9
- 1 1/2" WATER METER-- COORDINATE INSTALLATION WITH NM UTILITIES DETAIL: C/9
- FEBCO 1 1/2" 825Y RP BACKFLOW ASSEMBLY. INSTALL IN HOTBOX EZ BOX MODEL #1, INSULATED ENCLOSURE WITH HEAT TAPE. DETAIL: C/9
- BERMAD 900 SERIES 1 1/2" HYDROMETER DETAIL: C/9
- RAINBIRD PEB-PRS CONTROL VALVE-- SIZE AS PER PLAN DETAIL: 2703
- RAINBIRD PEB CONTROL VALVE-- SIZE AS PER PLAN DETAIL: 2703
- CRISPIN UL 10.0 1" UNIVERSAL AIR RELEASE VALVE ASSEMBLY. INSTALL AT PROJECT HIGH POINT, FIELD VERIFY LOCATION. DETAIL: D/9
- 4" PEGLER "O" RING GASKET VALVE 708A DETAIL: 2707
- CHAMPION 300 SERIES MANUAL DRAIN VALVE, SIZE AS PER MAINLINE PIPE SIZE. INSTALL IN BROOKS MODEL 1419 BOX W/BOLT DOWN LID DETAIL: F/9
- HUNTER I-20 SERIES ROTOR SPRINKLERS DETAIL: 2709
 - I-20-ADV-4.0 NOZZLE 43'R 4.2 GPM @ 50 PSI
 - I-20-ADV-4.0 NOZZLE 43'R 4.2 GPM @ 50 PSI
- HUNTER I-20 SERIES ROTOR SPRINKLERS DETAIL: 2709
 - NOZZLE AS PER PLAN
 - I-20-HP-ADV-.5SR 18'R .5 GPM @ 40 PSI
 - I-20-HP-ADV-1.0SR 18'R 1.0 GPM @ 40 PSI
- RAINBIRD 1800 PRS SERIES MPR SPRAY
 - 10Q 10'R .39 GPM @ 30 PSI
 - 10H 10'R .79 GPM @ 30 PSI
 - 10F 10'R 1.52 GPM @ 30 PSI

- RAINBIRD 1401 BUBBLER .25 GPM DETAIL:2711
- RAINBIRD 1404 BUBBLER 1.0 GPM DETAIL:2710
- RAINBIRD 1408 BUBBLER 2.0 GPM DETAIL:2710

MAINLINE: SIZE AS PER PLAN, MATERIAL AS PER SPECIFICATIONS

SCHEDULE 40 LATERALS SIZE AS PER PLAN

IRRIGATION SLEEVES--SLEEVES TO BE SIZED TWO SIZES LARGER THAN THE PIPE TO BE SLEEVED, UNLESS NOTES ON THE PLANS.

VALVE SCHEDULE

| VALVE NO. | SIZE | NOZZLE/RADIUS | DESCRIPTION | MAX. DEMAND | RUN TIME |
|-------------------------------|------|---------------|-----------------------|-------------|--------------------|
| ROTOR | V-5 | 1 1/2" | TURF RECLAMATION SEED | 55.65 GPM | 62 MIN. |
| | V-3 | 1" | | 20.0 GPM | 15 MIN. (FOR 1/4") |
| SPRAY | V-7 | 1" | NATIVE TURF | 28.03 GPM | 20 MIN. |
| | V-7 | 1" | NATIVE TURF | 22.9 GPM | 20 MIN. |
| Total Spray Runtime 1.95 hrs. | | | | | |
| BUBBLER | V-1 | 1" | TREE BUBBLER | 18.0 GPM | 10 MIN. |
| | V-4 | 1" | TREE BUBBLER | 16.0 GPM | 10 MIN. |
| | V-6 | 1" | TREE BUBBLER | 8.0 GPM | 10 MIN. |
| | V-9 | 1" | TREE BUBBLER | 6.0 GPM | 10 MIN. |
| | V-2 | 1" | SHRUB BUBBLER | 23.25 GPM | 10 MIN. |

| PROGRAM | STATION | CALCULATED PRECIPITATION | RUN TIME IN MINUTES | CYCLES PER IRRIGATION | IRRIGATIONS PER MONTH | COMMENTS |
|---------|---------|--------------------------|---------------------|-----------------------|-----------------------|----------|
| 1 | 1 | N/A | 10 | 1 | 4 | |
| 2 | 2 | N/A | 10 | 1 | 4 | |
| 3 | 3 | .50"/HR | 15 | 1 | 15 | |
| 4 | 4 | N/A | 10 | 1 | 4 | |
| 5 | 5 | .48"/HR | 62 | 2 | 15 | |
| 6 | 6 | N/A | 10 | 1 | 4 | |
| 7 | 7 | 1.52"/HR | 20 | 2 | 15 | |
| 8 | 8 | 1.52"/HR | 20 | 2 | 15 | |
| 9 | 9 | N/A | 10 | 1 | 4 | |

| VALVE LEGEND |
|------------------|
| V-5 VALVE NUMBER |
| 2" VALVE SIZE |
| 53.6 GPM |
| BUB HEAD TYPE |



IRRIGATION NOTES

CONTRACTOR SHALL REPLACE, IN KIND, ALL EXISTING STREET PAVEMENT, CURB AND GUTTER AND SIDEWALK, DISTURBED DUE TO INSTALLATION OF WATER METER, SERVICE AND SLEEVES. REFERENCE C.O.A. STD DWGS # 2301, WATERLINE CONNECTION, #2430, SIDEWALK, #2415, CURB AND GUTTER AND #2465, ARTERIAL/COLLECTOR STREET SECTION.

CONTRACTOR SHALL PROVIDE 120V POWER SUPPLY FOR HEAT TAPE AT RP BACKFLOW PREVENTERS AND IRRIGATION CONTROLLERS. COORDINATE ALL WORK WITH PNM. INSTALL METER PEDESTAL AS PER DETAIL X/X.

ALL WORK TO BE PERFORMED WITHIN THE PUBLIC RIGHT OF WAY.

CONCRETE THRUST BLOCKS SHALL BE PROVIDED WHERE NECESSARY TO RESIST SYSTEM PRESSURE. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL DIRECTION CHANGES, SIZE CHANGES, VALVES AND TERMINATIONS, OR AT ANY OTHER POINTS OF THE SYSTEM THAT WILL RESULT IN AN UNBALANCED THRUST LINE FOR EQUIPMENT 2 (TWO) INCHES AND LARGER. DO NOT OBSTRUCT THE OUTLETS OF FITTINGS WHICH ARE INTENDED FOR FUTURE CONNECTIONS. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH AND IN ACCORDANCE WITH THE PLANS OR STANDARD DETAILS.

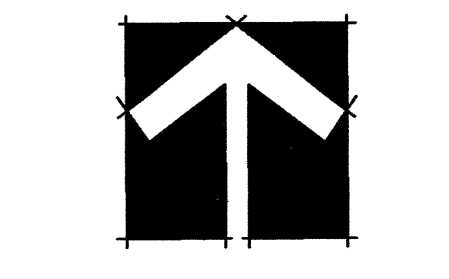
IRRIGATION SYSTEM AS SHOWN WAS DESIGNED WITH AN ESTIMATED 85-90 PSI STATIC AT THE POINT OF CONNECTION. CONTRACTOR SHALL FIELD VERIFY STATIC PRESSURE PRIOR TO THE START OF WORK. IF FIELD CONDITIONS ARE OTHER THAN AS STATED, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH WORK.

APPROVED FOR CONSTRUCTION:

BOB GAY

DATE: 7-23-02

NEW MEXICO UTILITIES



SCALE: 1" = 20'

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DESIGN GROUP

TUSCANY PARK
IRRIGATION PLAN

Design Review Committee City Engineer Approval

SEP 26 2002 SEP 26 2002

City Project No. 6868.91 Zone Map No. A-12 Sheet 8 Of 13

Designed By: PG

Drawn By: PAA/CBD

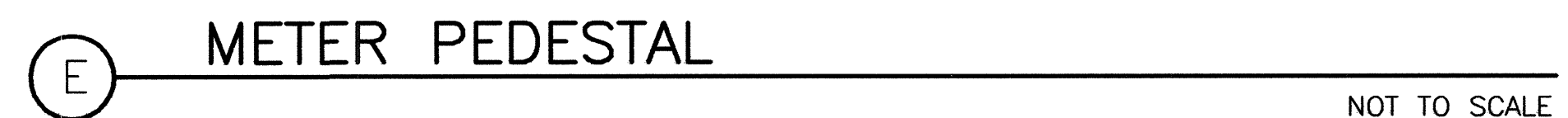
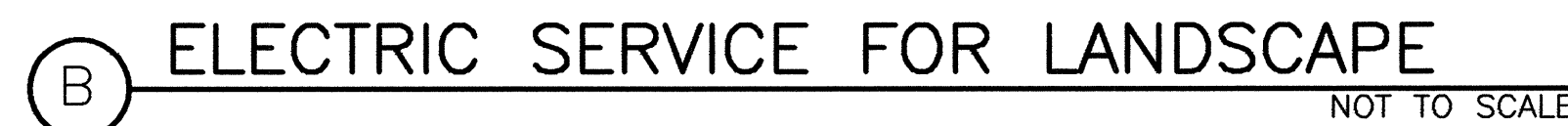
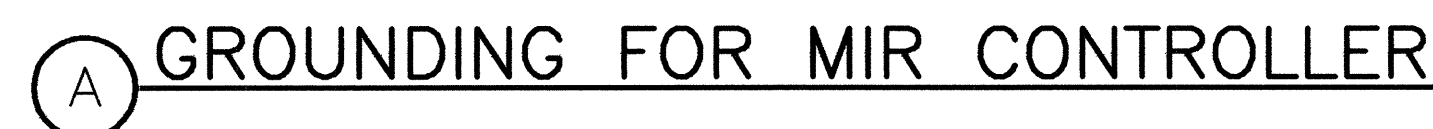
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REVISIONS

DESIGN

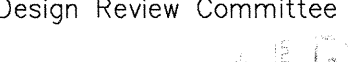
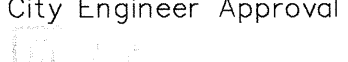
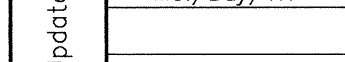
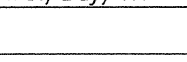

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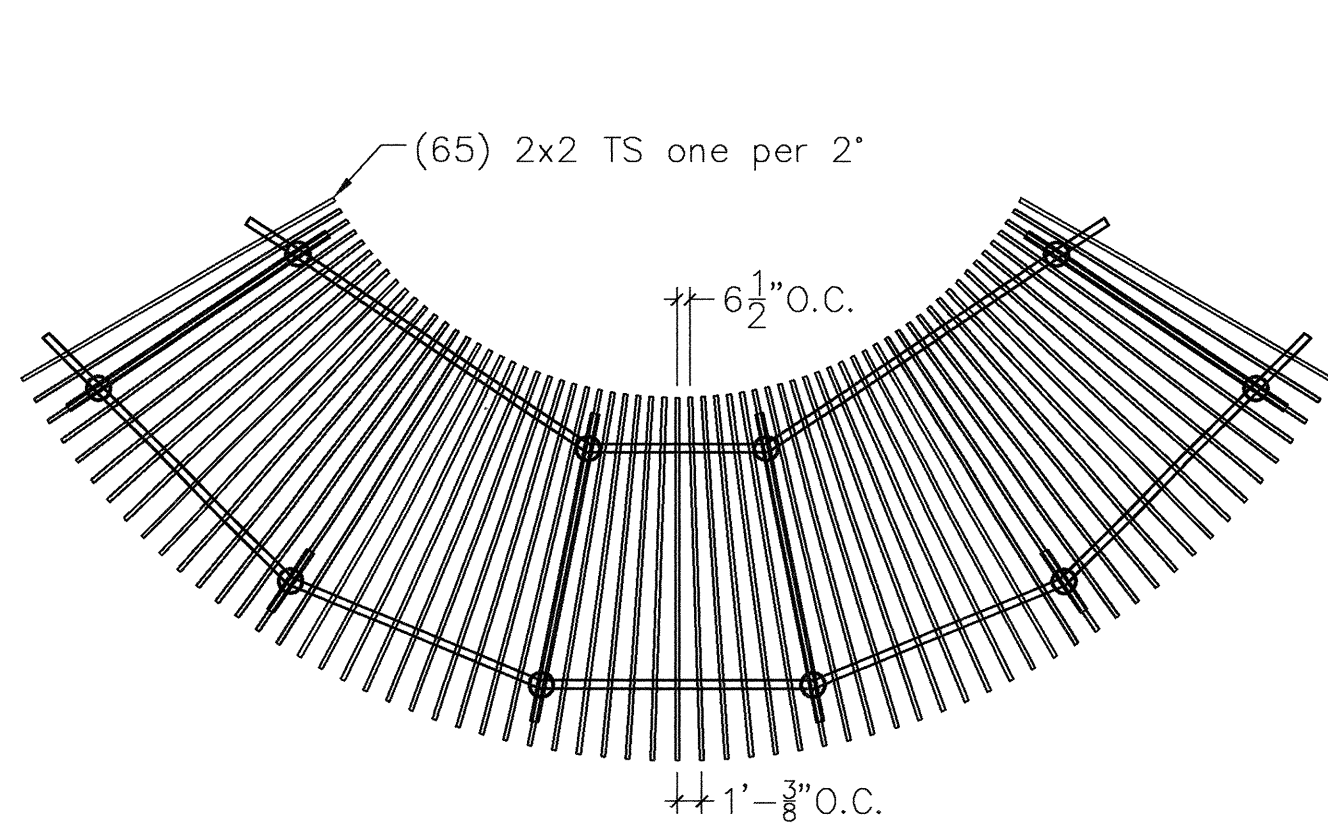
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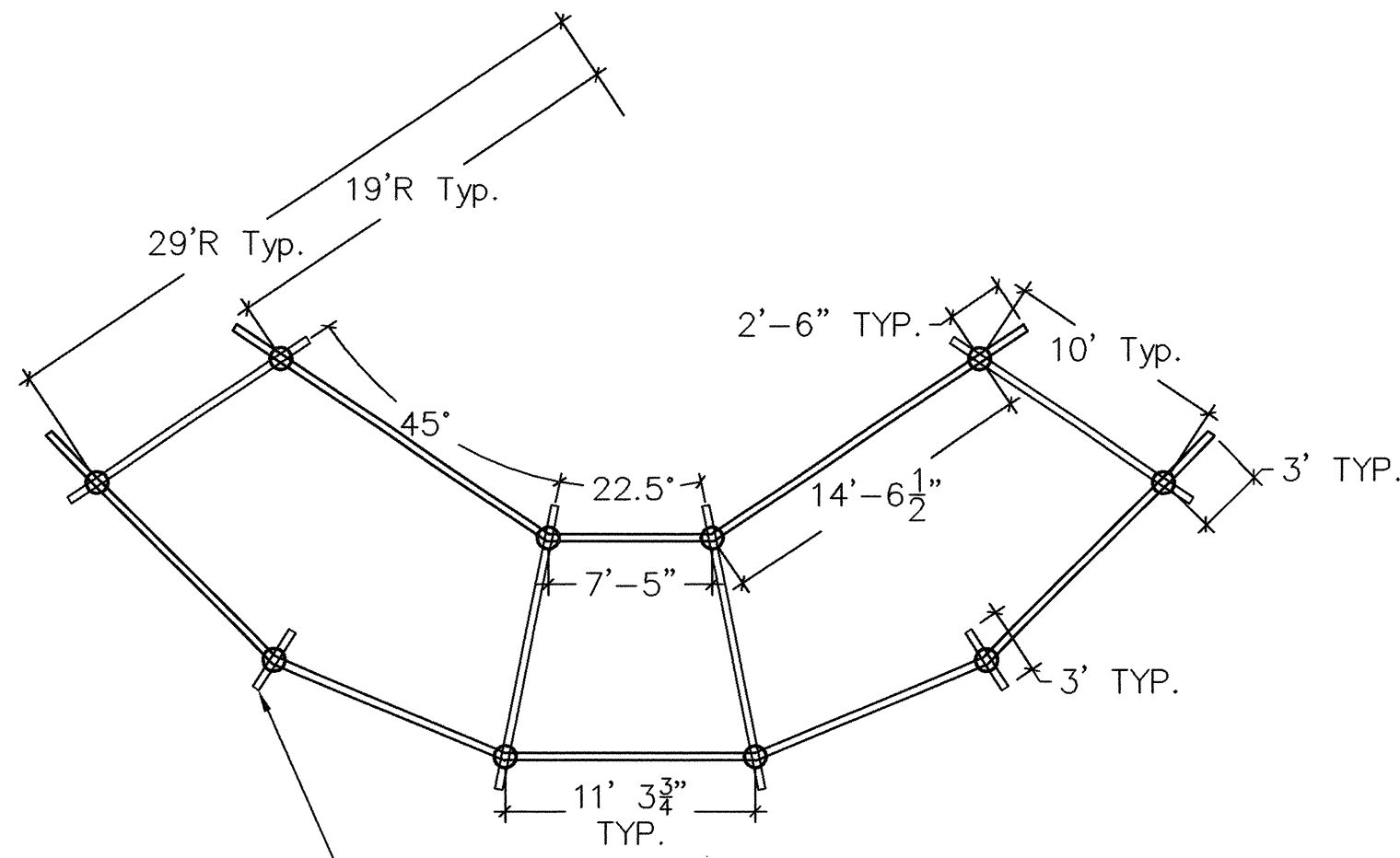
 **CITY OF ALBUQUERQUE**
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TUSCANY PARK IRRIGATION DETAILS

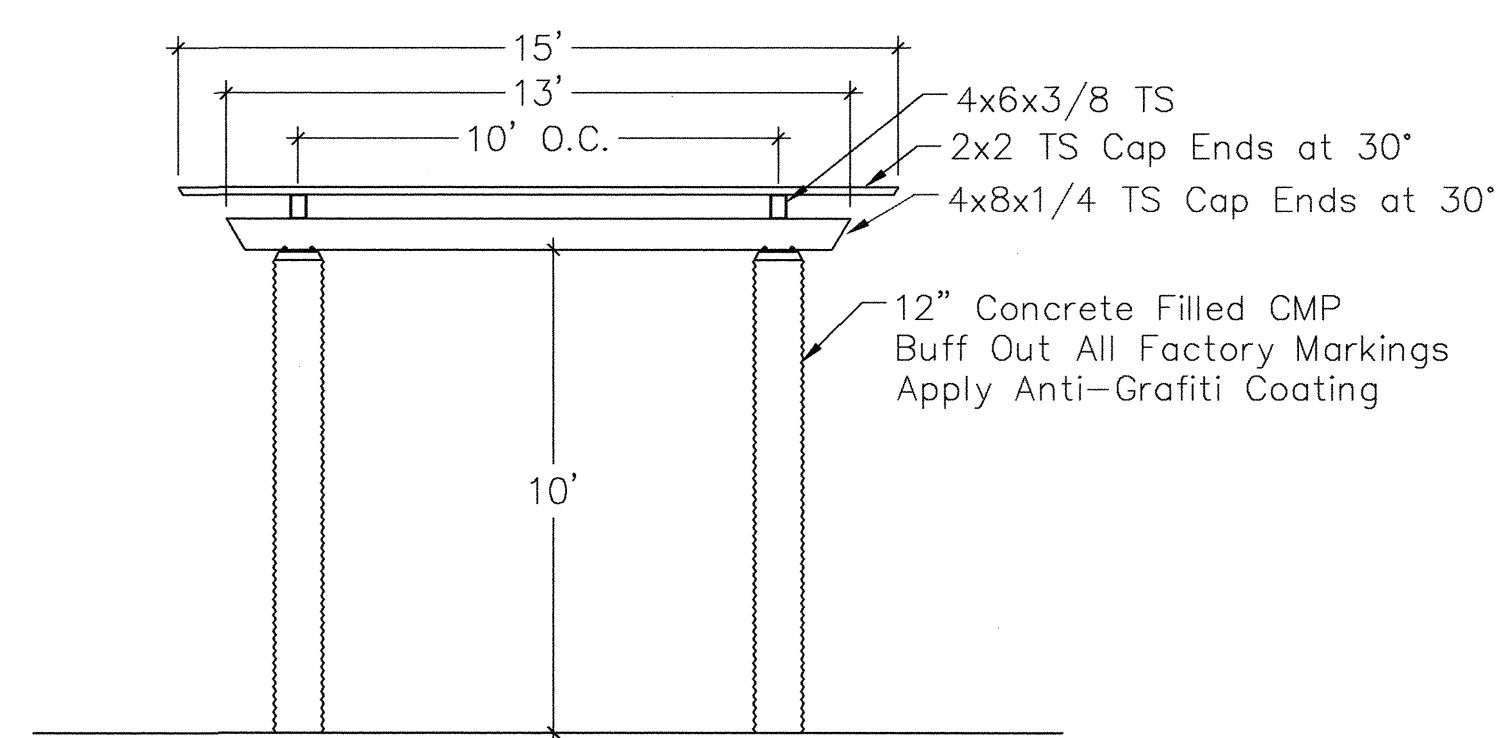
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| Design Review Committee  | | City Engineer Approval  | | Last Design Update  | | Mo./Day/Yr.  | | Mo./Day/Yr.  | |
| City Project No. 6868.91 | | Zone Map No. A-12 | | Sheet 9 | | Of 13 | | | |



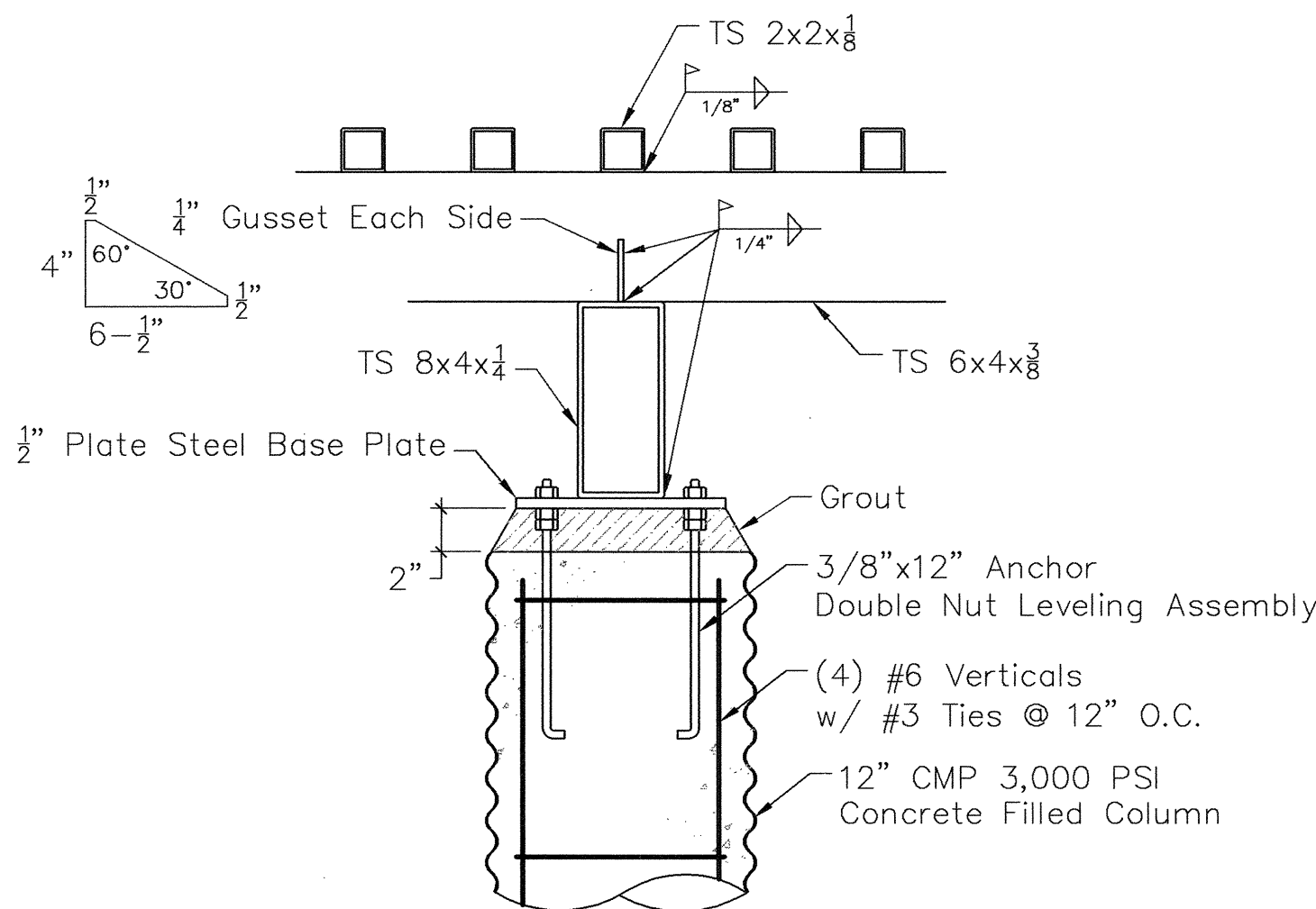
A STEEL RAMADA PLAN
NOT TO SCALE



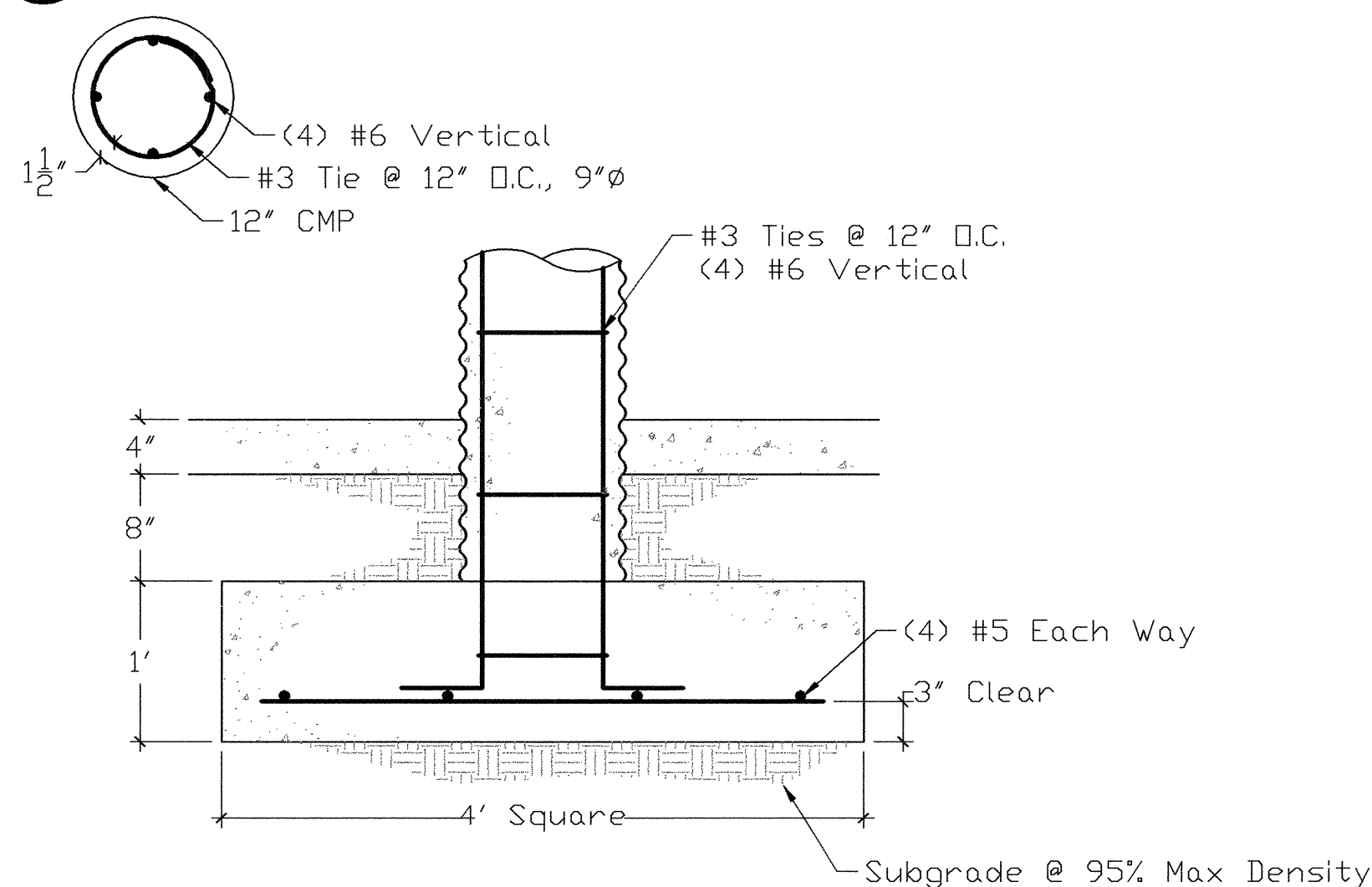
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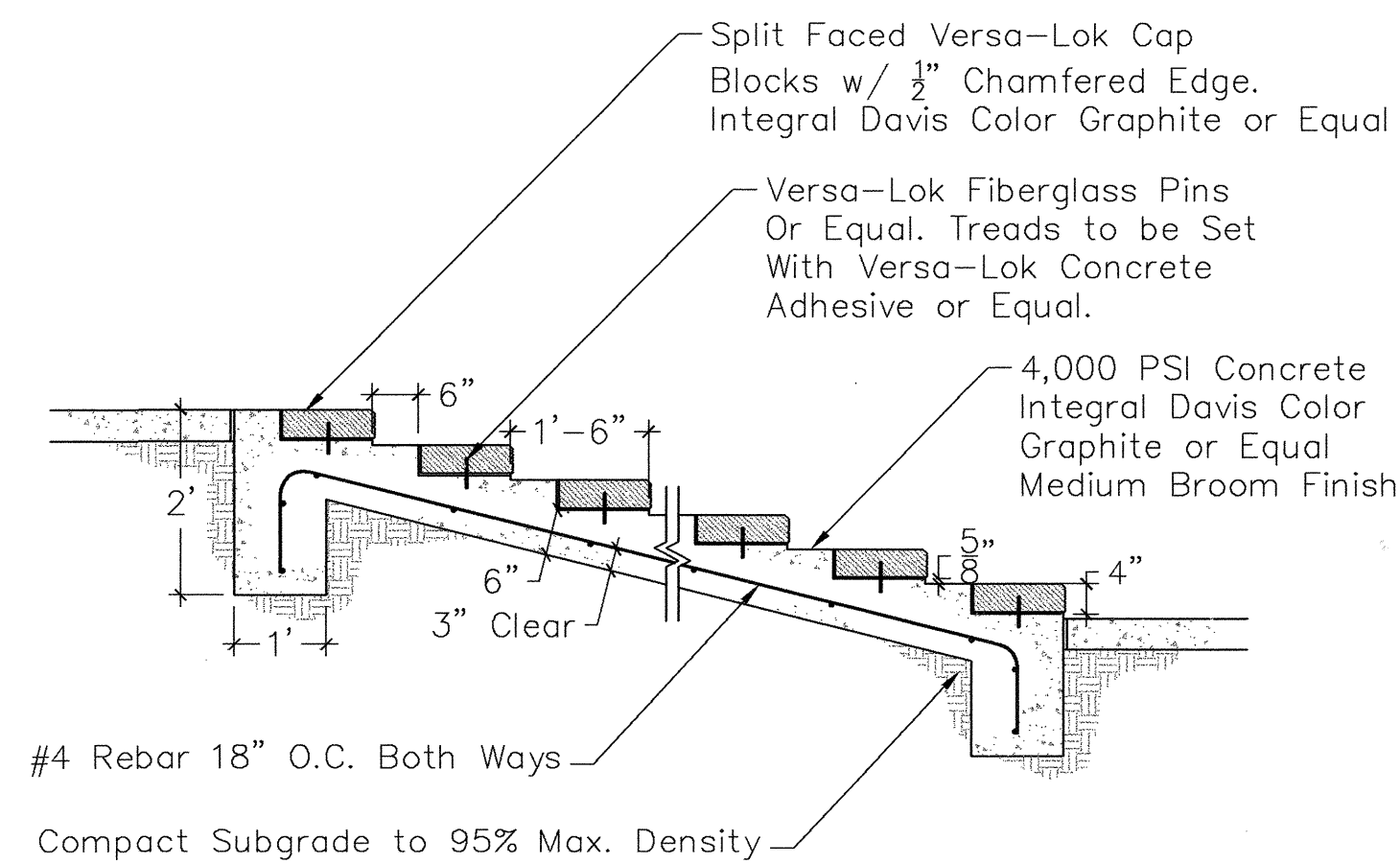
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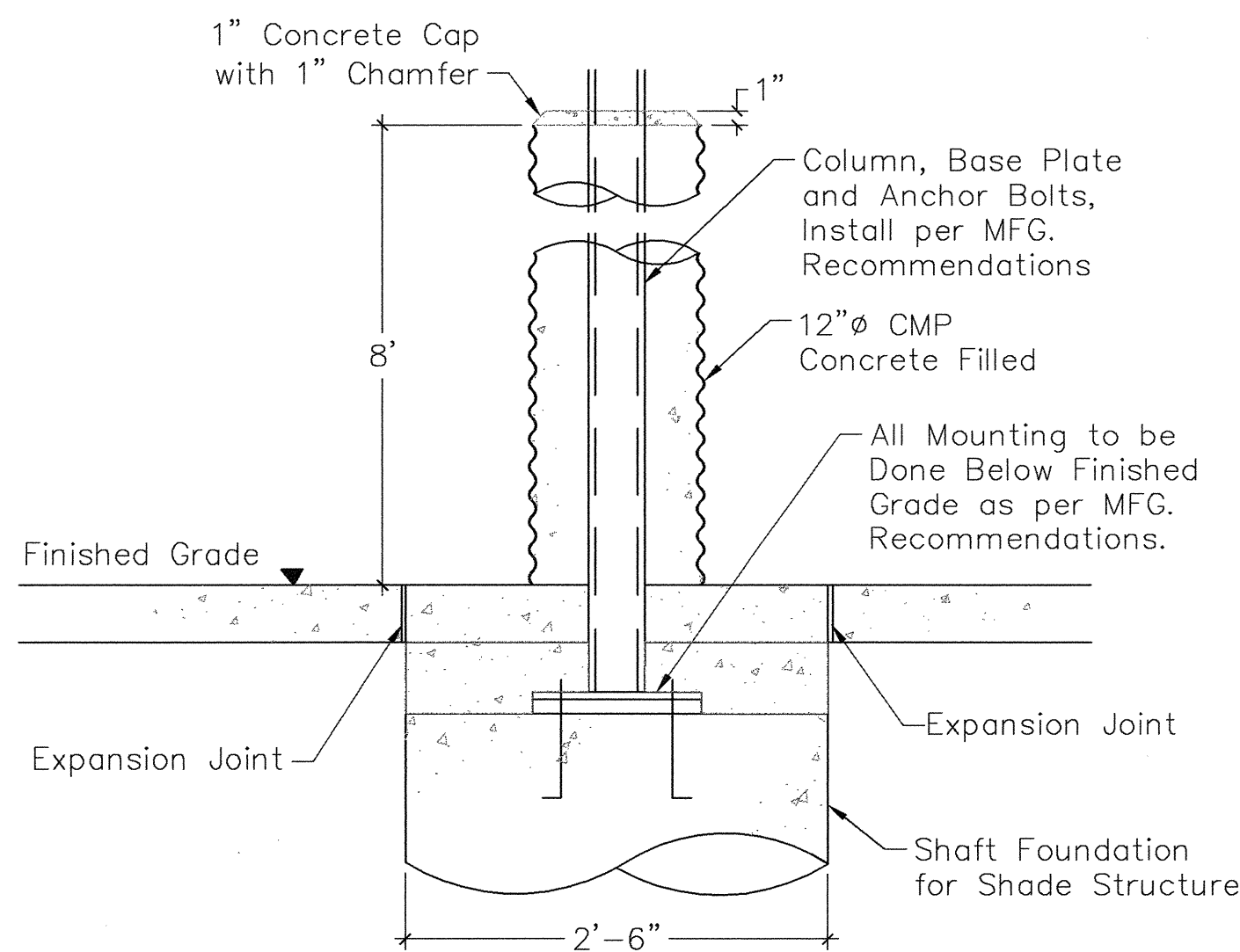
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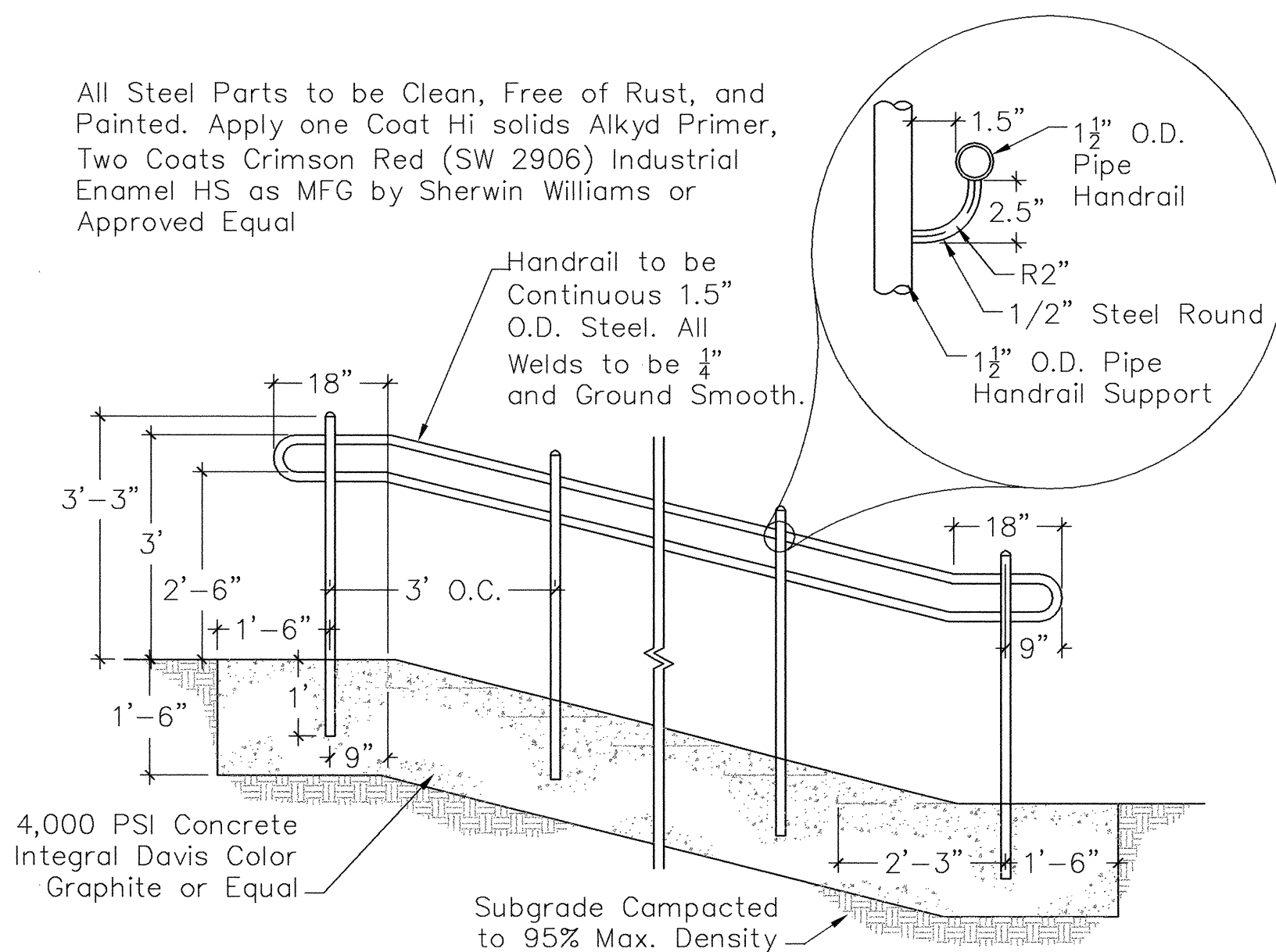
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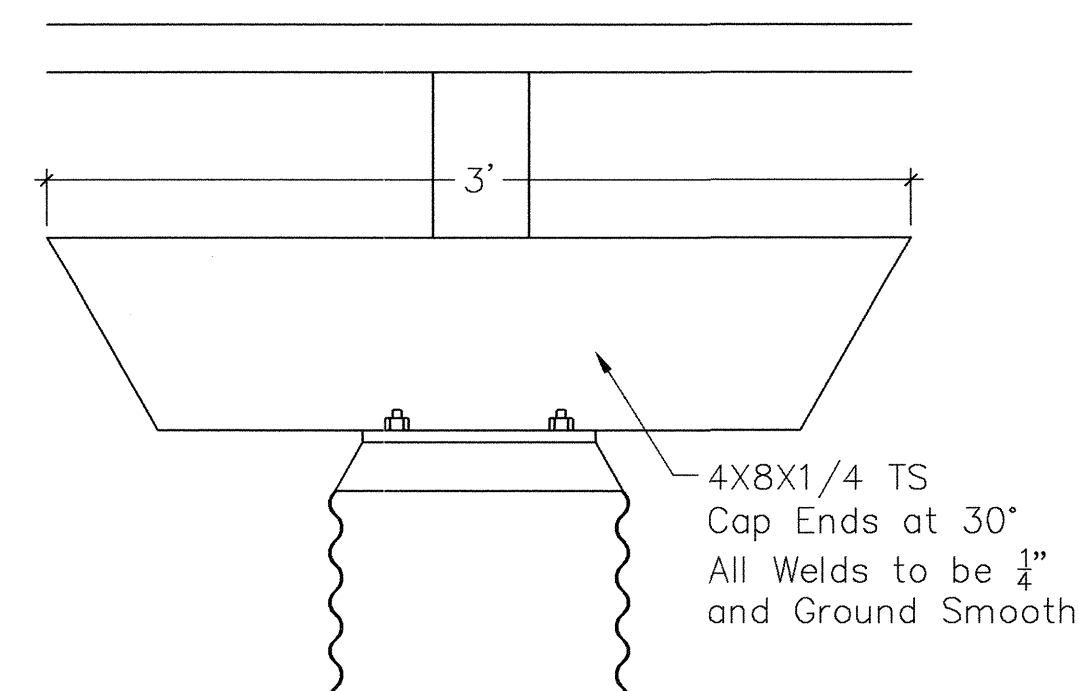
F STAIR DETAIL
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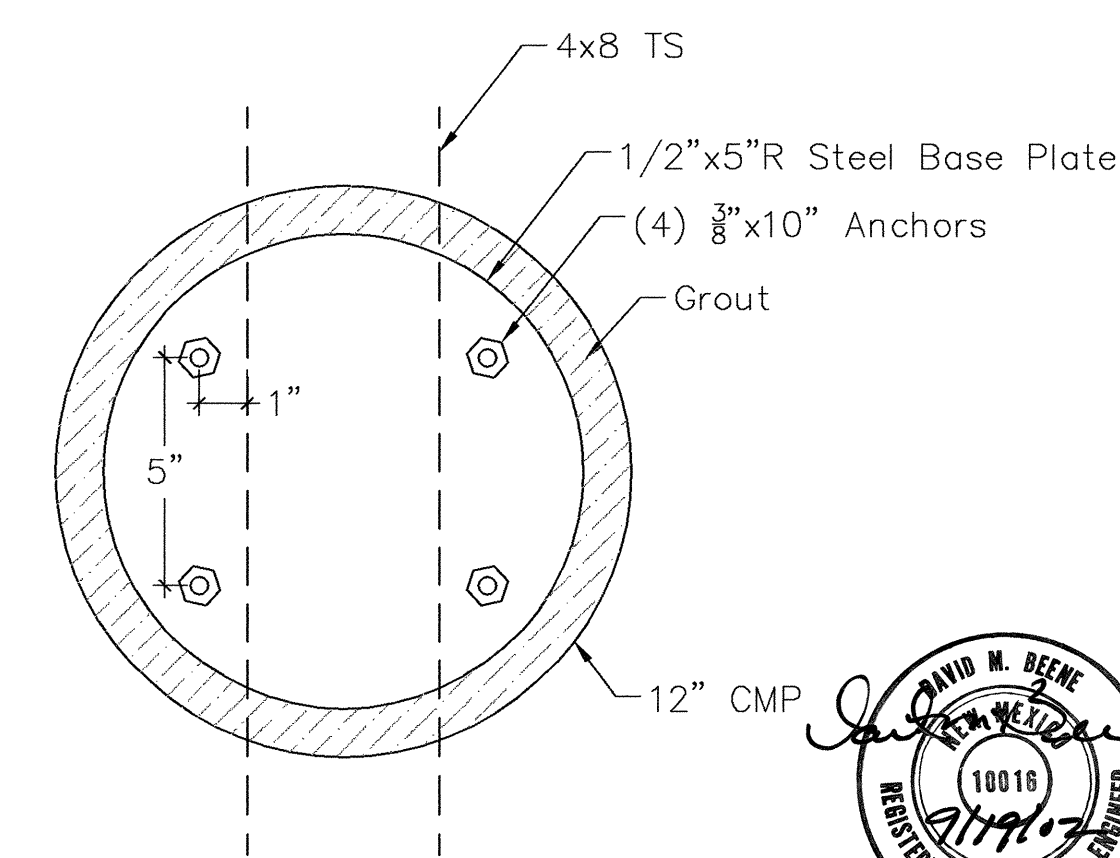
G SHADE STRUCTURE POST DETAIL
NOT TO SCALE



H HAND RAIL DETAIL
NOT TO SCALE

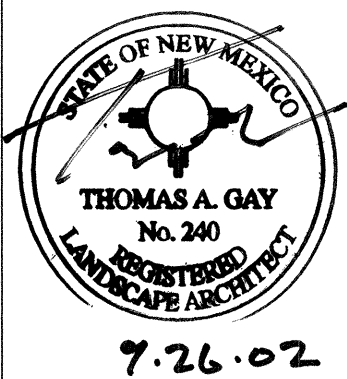


I SHORT BEAM ELEVATION
NOT TO SCALE



J MOUNTING DETAIL
NOT TO SCALE

| AS-BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | LANDSCAPE ARCHITECT'S SEAL | | REVISIONS | | DESIGN | | TAG | | PAA/CBD | | TAG | |
|----------------------|------|-------------|----|--------------------|----|----------------------------|----|-----------|------|--------|------|--------------|----------|-----------|----------|-------------|----------|
| CONTRACTOR | DATE | NO. | BY | NO. | BY | NO. | BY | No. | Date | No. | Date | Designed By: | DATE: | Drawn By: | DATE: | Checked By: | DATE: |
| | | | | | | | | | | | | | 09/10/02 | | 09/10/02 | | 09/10/02 |



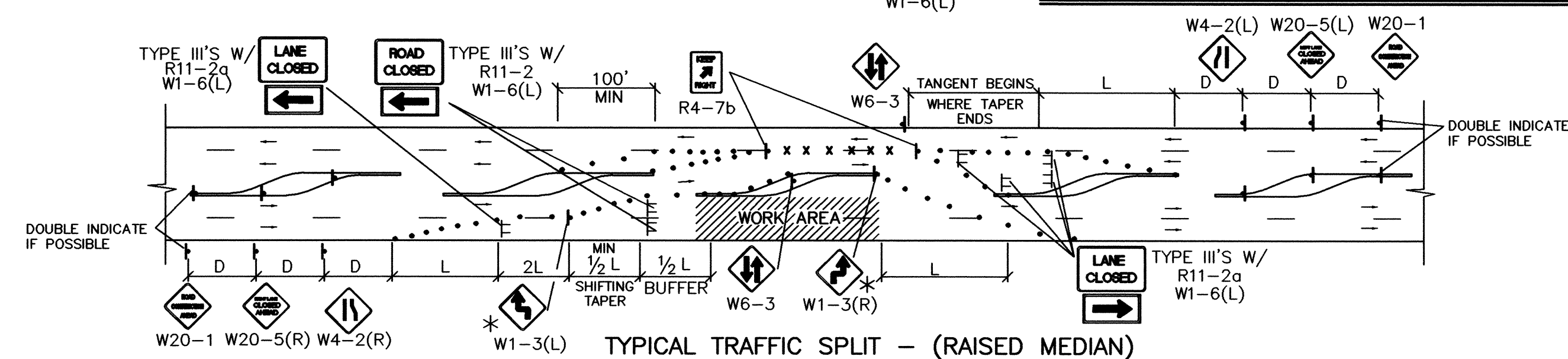
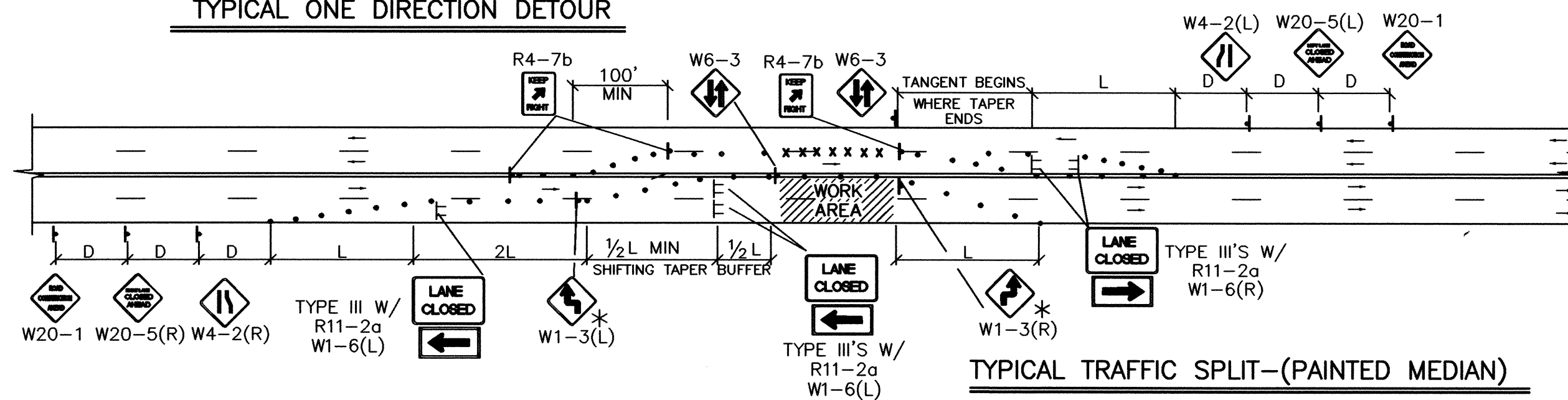
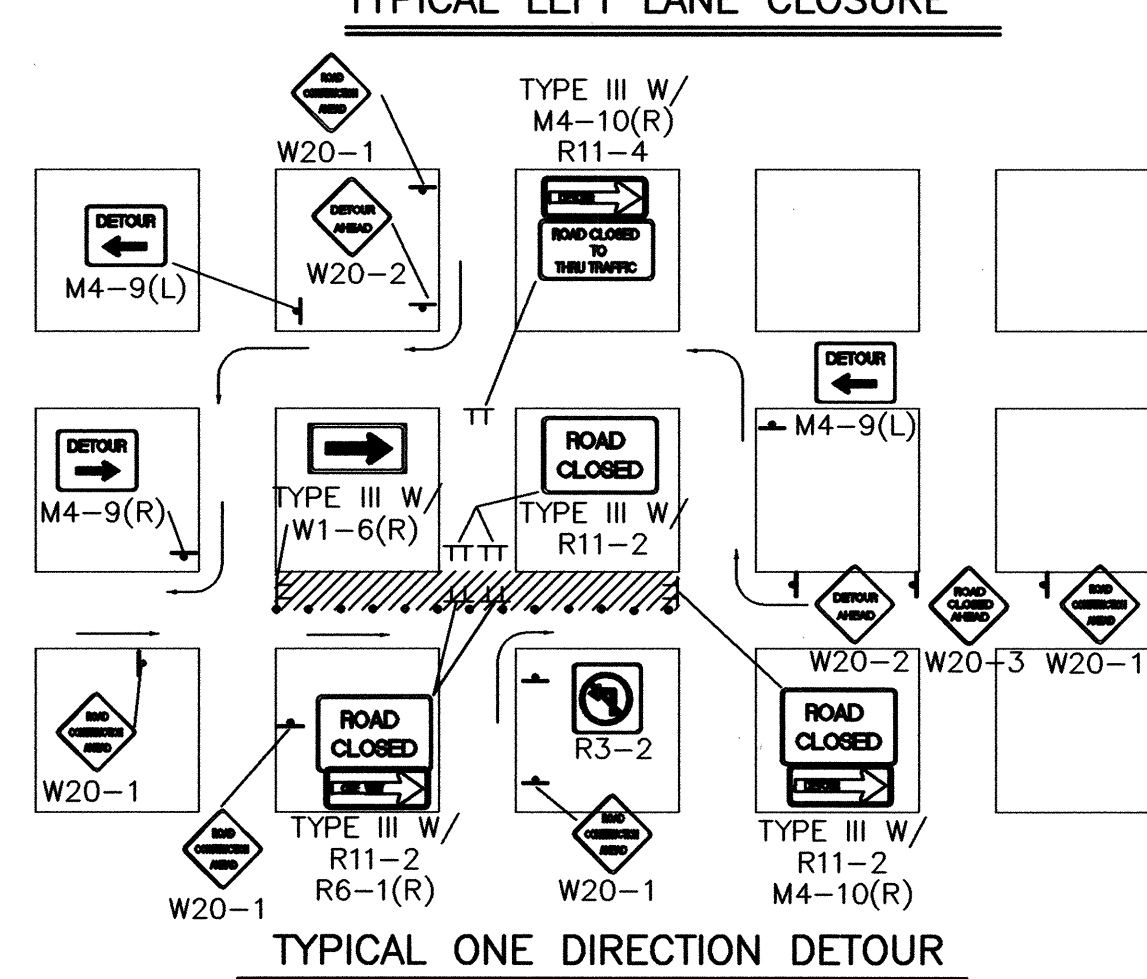
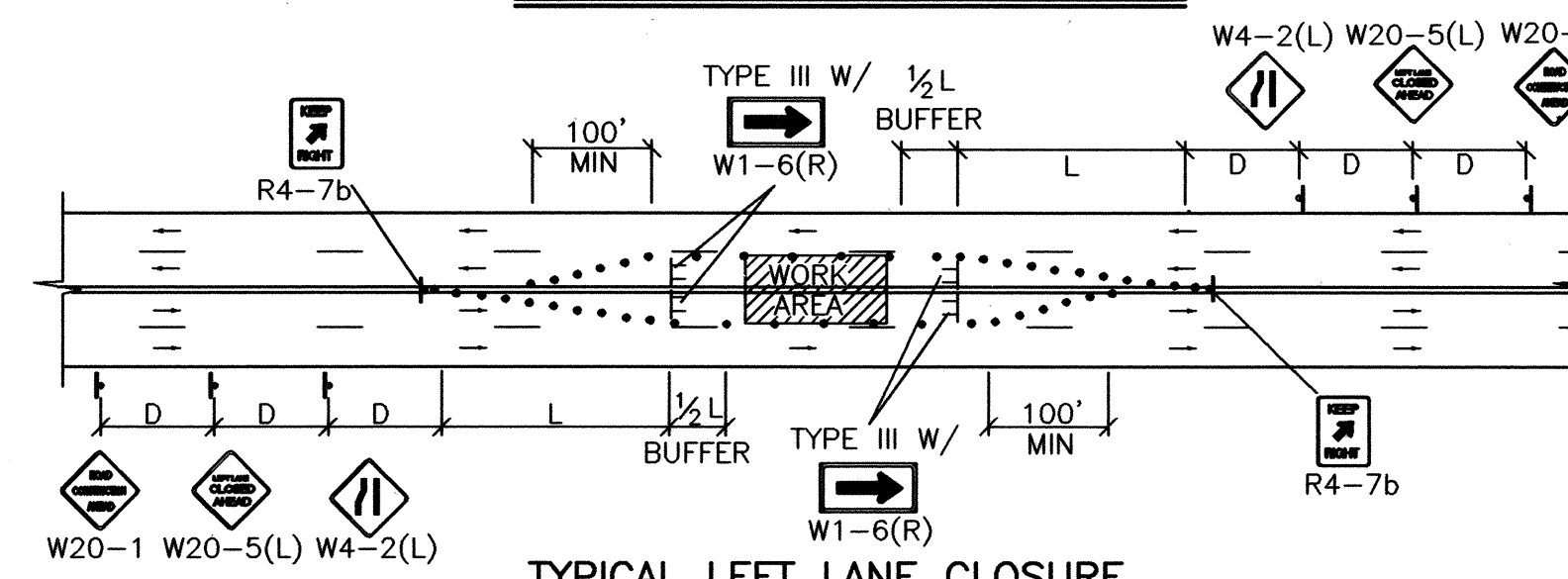
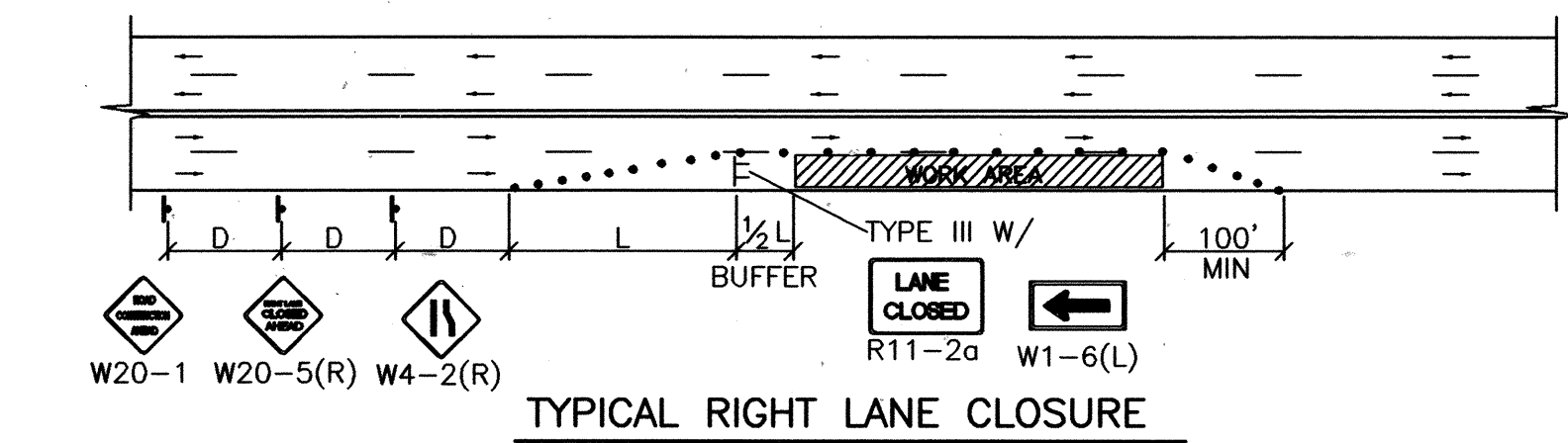
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TUSCANY PARK
CONSTRUCTION DETAILS

Design Review Committee: SEP 26 2002
City Engineer Approval: SEP 26 2002

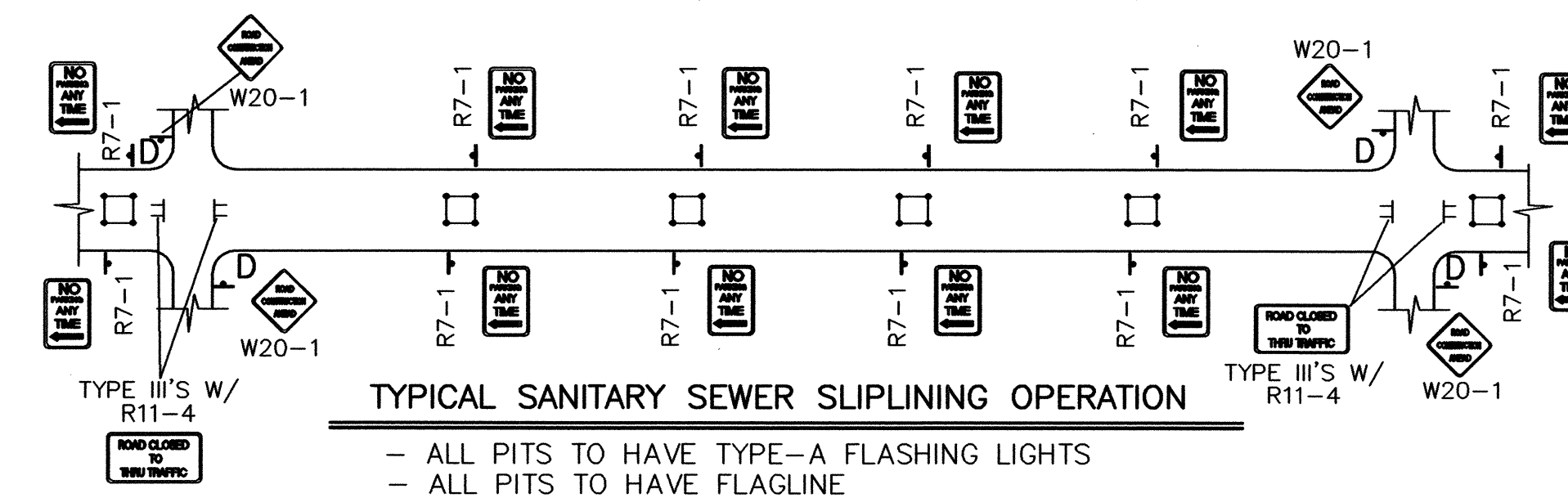
City Project No. 6868.91
Zone Map No. A-12
Sheet 11 of 13





- TRAFFIC SPLIT NOTES:

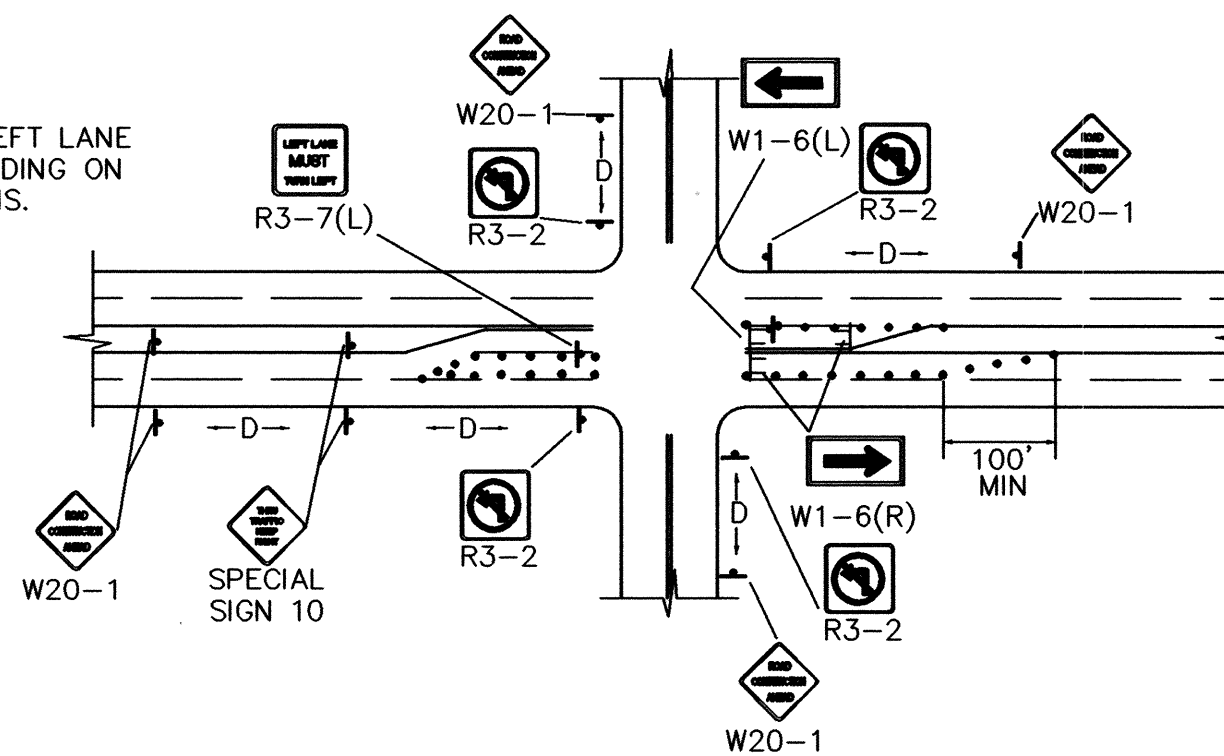
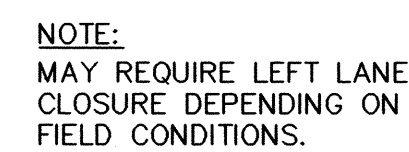
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE
OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED, ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT
SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



GENERAL NOTE:

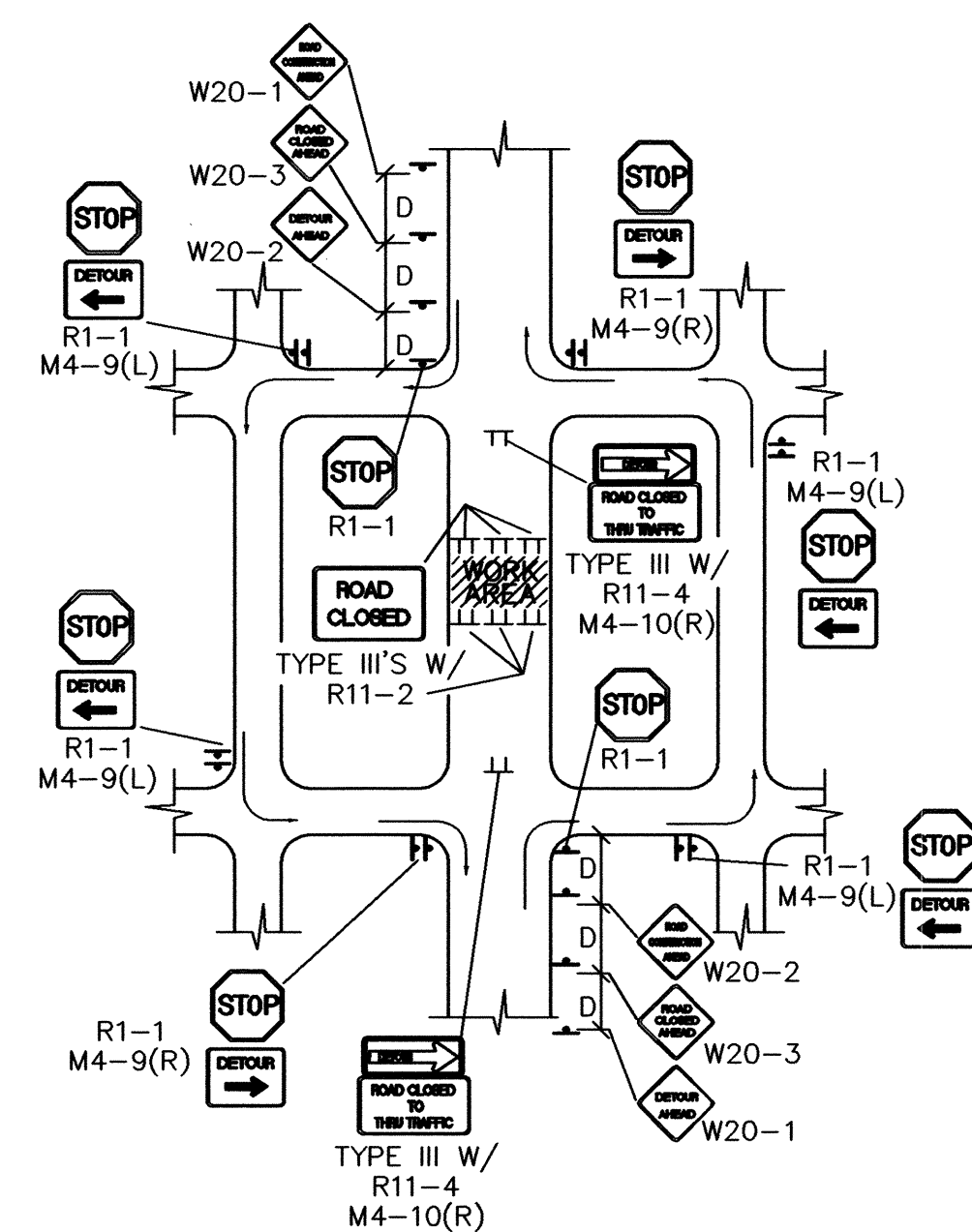
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

⚠ ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



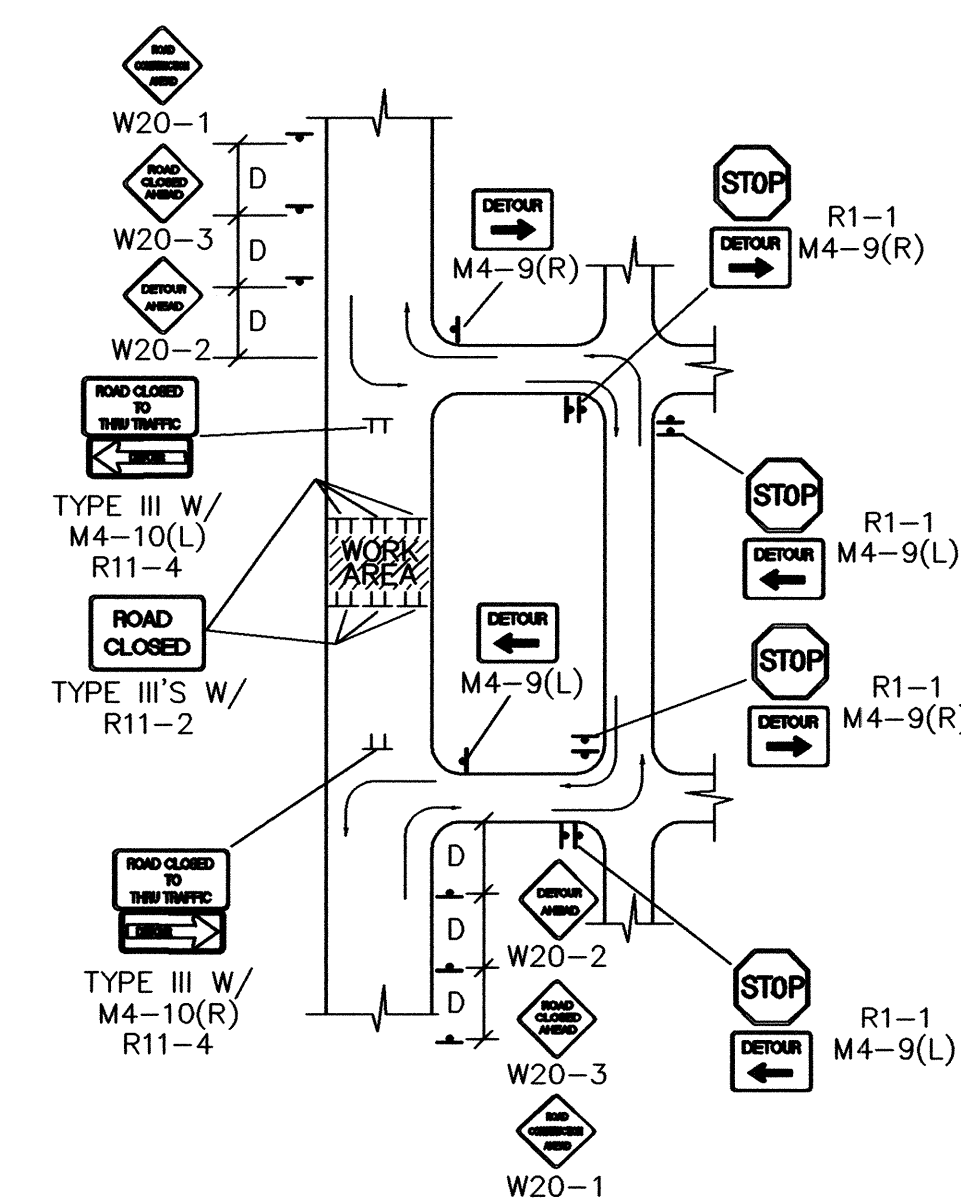
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



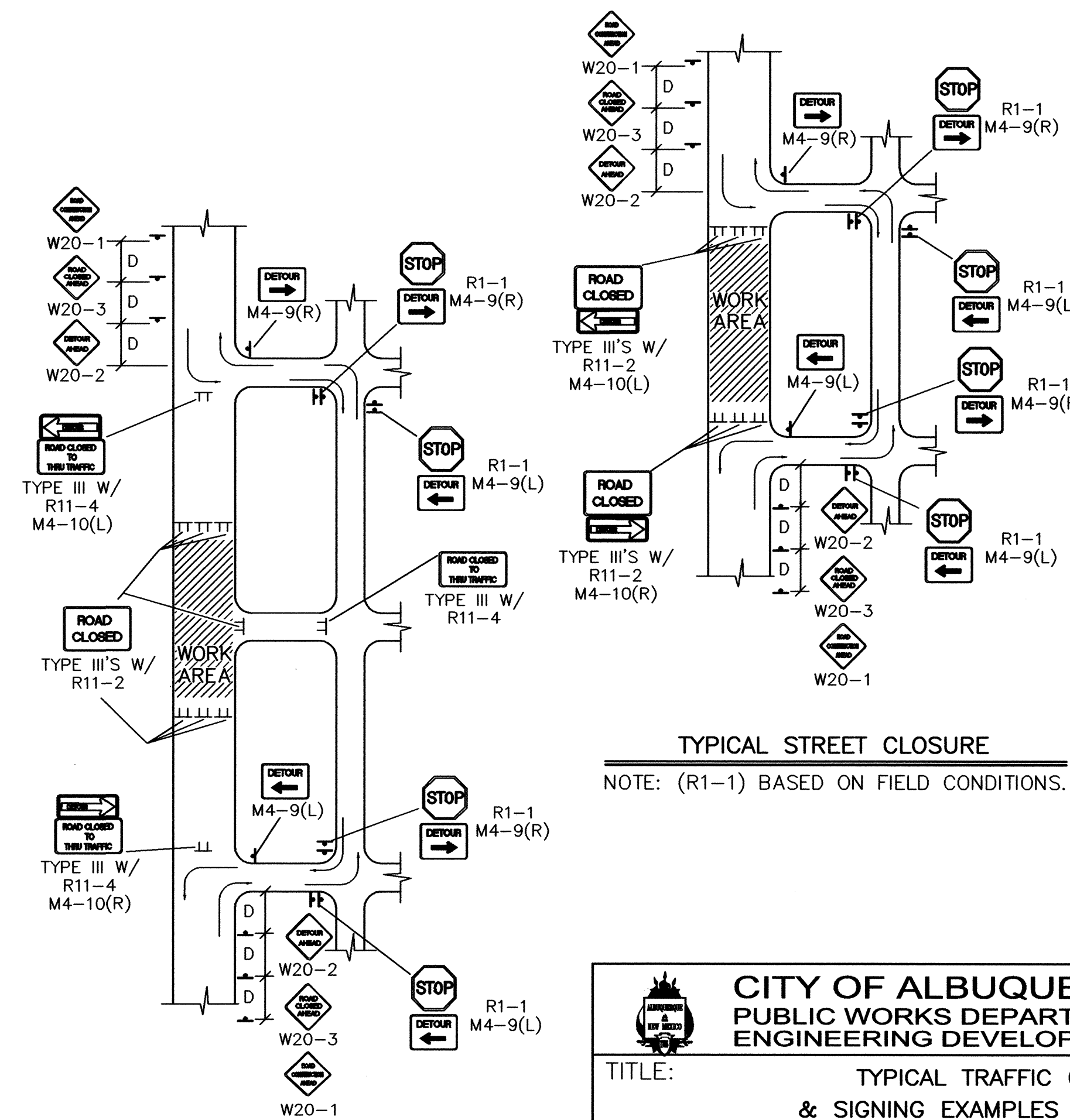
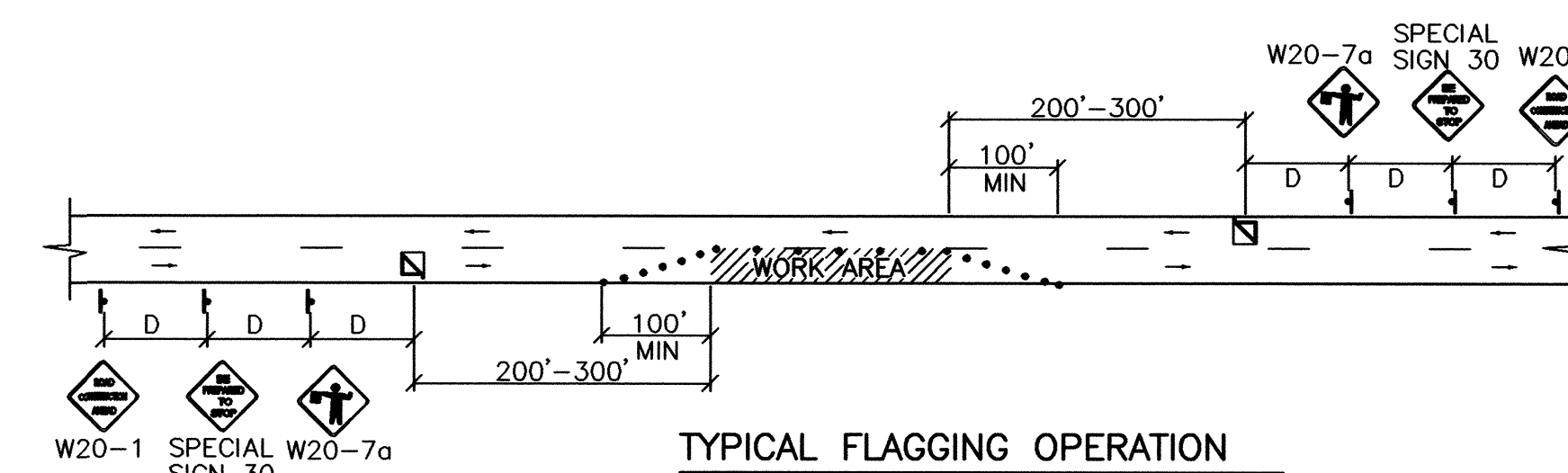
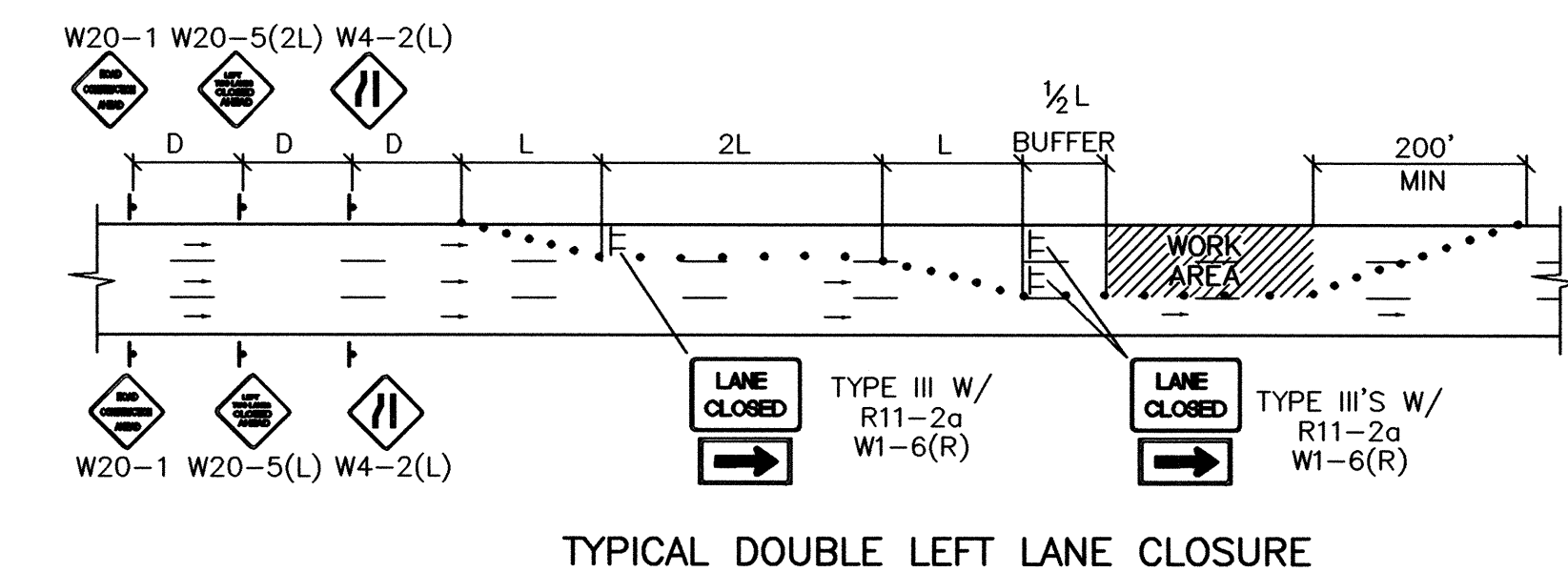
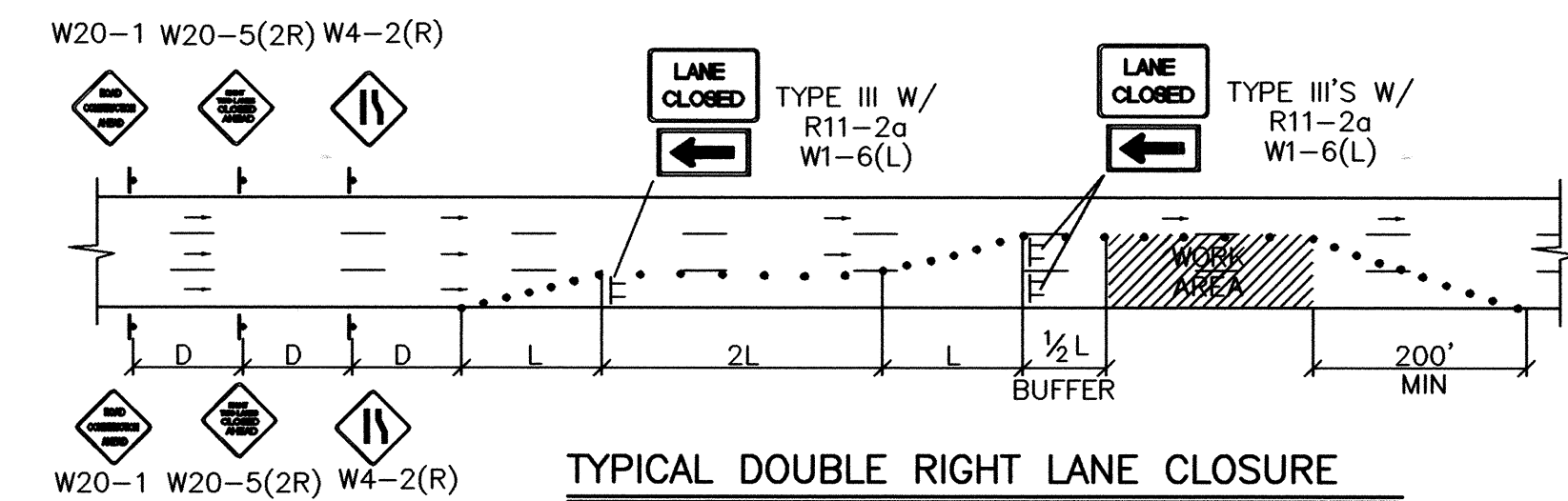
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

| | | | | | | | | | | | | | | |
|---------------------|--------------------|-----------|--|--------------------|--|-----------|--|--|--|--|--|--|--|--|
| ALBUQUERQUE | | | | | | | | | | | | | | |
| CLIENT GROUP | | | | | | | | | | | | | | |
| CONTROL | | | | | | | | | | | | | | |
| (REF MUTCD) | | | | | | | | | | | | | | |
| UPDATE | MO./DAY/YR. | | | MO./DAY/YR. | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| SHEET | | OF | | 12 | | 13 | | | | | | | | |

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPERATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

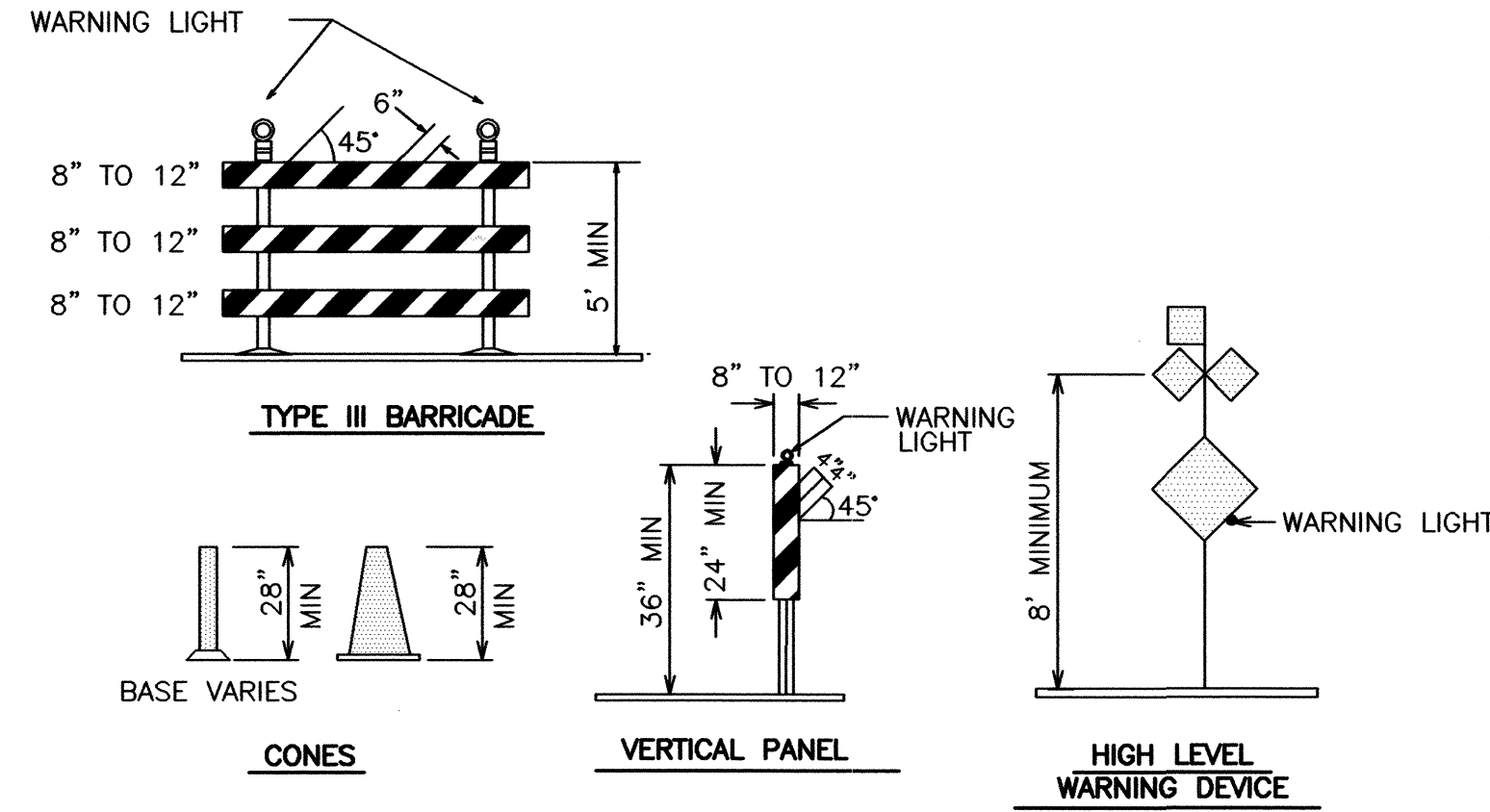
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



LEGEND

WORK AREA
BARRICADE - TYPE I, TYPE II, OR BARREL
BARRICADE - TYPE III
VERTICAL PANEL
WARNING SIGN
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
FLAGMAN POSITION
SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET
TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

| SPEED LIMIT (MPH) | TAPER LENGTH(L) (FEET) | | | MINIMUM NUMBER OF DEVICES FOR TAPER | MAXIMUM DEVICE SPACING IN FEET | |
|-------------------|------------------------|----------|----------|-------------------------------------|--------------------------------|-------------|
| | 10' LANE | 11' LANE | 12' LANE | | ALONG TAPER | AFTER TAPER |
| 20 | 70 | 75 | 80 | 5 | 20 | 20 |
| 25 | 105 | 115 | 125 | 6 | 25 | 25 |
| 30 | 150 | 165 | 180 | 7 | 30 | 30 |
| 35 | 205 | 225 | 245 | 8 | 35 | 35 |
| 40 | 270 | 295 | 320 | 9 | 40 | 40 |
| 45 | 450 | 495 | 540 | 13 | 45 | 45 |
| 50 | 500 | 550 | 600 | 13 | 50 | 50 |
| 55 | 550 | 605 | 660 | 13 | 55 | 55 |

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

| SPEED LIMIT (MPH) | MINIMUM DISTANCE BETWEEN SIGNS | MINIMUM DISTANCE FROM LAST SIGN TO TAPER |
|-------------------|--------------------------------|--|
| 0-20 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 25-30 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 30-35 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 40-45 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |
| 50-60 | 10 X SPEED LIMIT | 10 X SPEED LIMIT |

TAPER CRITERIA

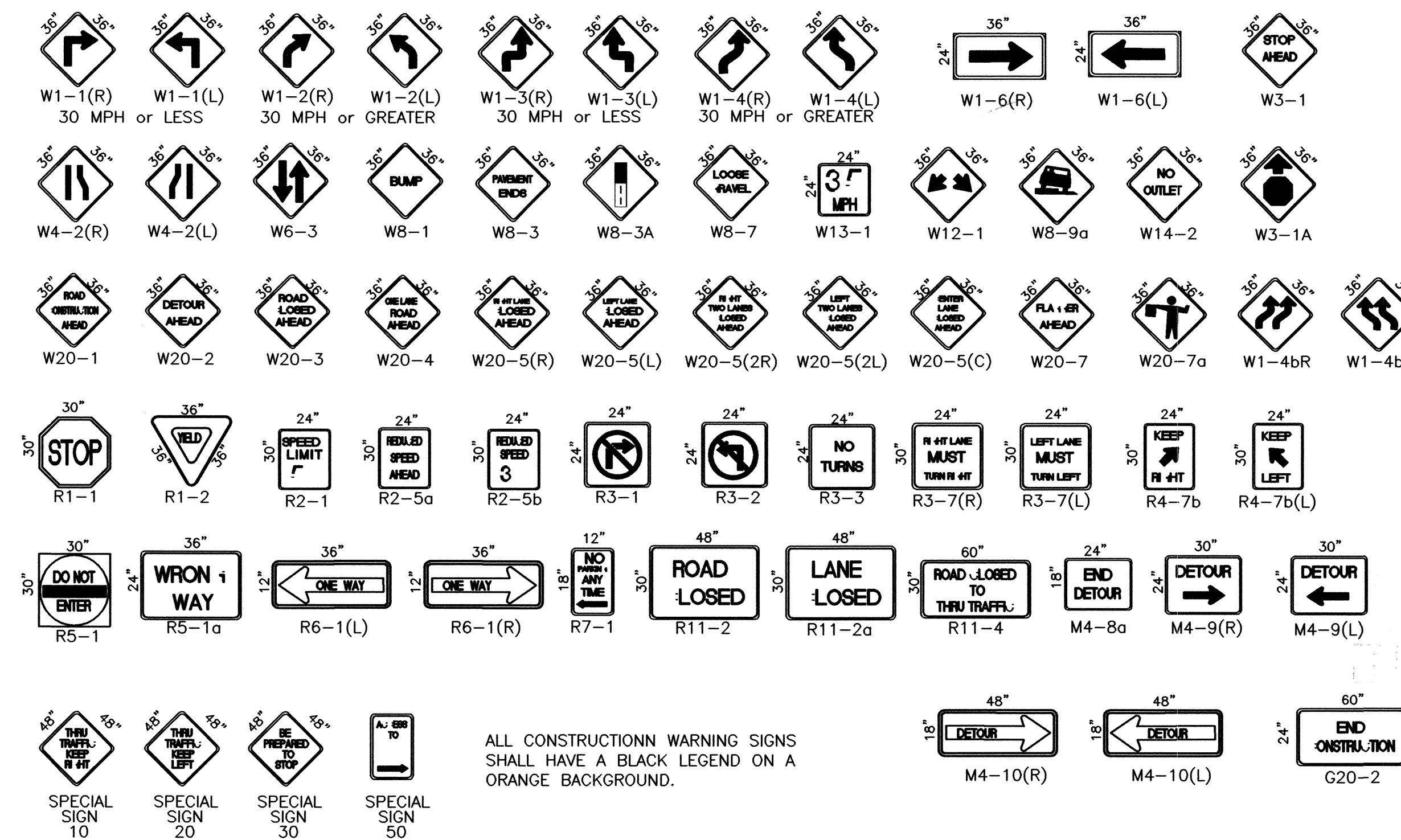
| TYPE OF TAPER | TAPER LENGTH |
|-----------------------|-------------------|
| UPSTREAM TAPER: | |
| MERGING TAPER | L MINIMUM |
| SHIFTING TAPER | 1/2 L MINIMUM |
| SHOULDER TAPER | 1/2 L MINIMUM |
| TWO-WAY TRAFFIC TAPER | 100 FEET MAXIMUM |
| DOWNSTREAM TAPERS | 100 FEET PER LANE |

TAPER LENGTH COMPUTATION

| SPEED LIMIT | |
|-------------------|-----------------------|
| 40 MPH OR LESS | $L = \frac{WS^2}{60}$ |
| 40 MPH OR GREATER | $L = W \times S$ |

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC CONTROL
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE: [Signature]
CITY ENGINEER APPROVAL: [Signature]

CITY PROJECT NO. 6868.91
ZONE MAP NO. A-12
SHEET 13 OF 13