

ARROYO DEL OSO ELEMENTARY SCHOOL

NOTE: THIS PROJECT IS DESIGNATED FOR CLASS I CONSTRUCTION

ALBUQUERQUE PUBLIC SCHOOLS
AND
CITY OF ALBUQUERQUE
PARKS AND GENERAL SERVICES
DEPARTMENT

MULTI-PURPOSE FIELD AND PLAYGROUND RENOVATION

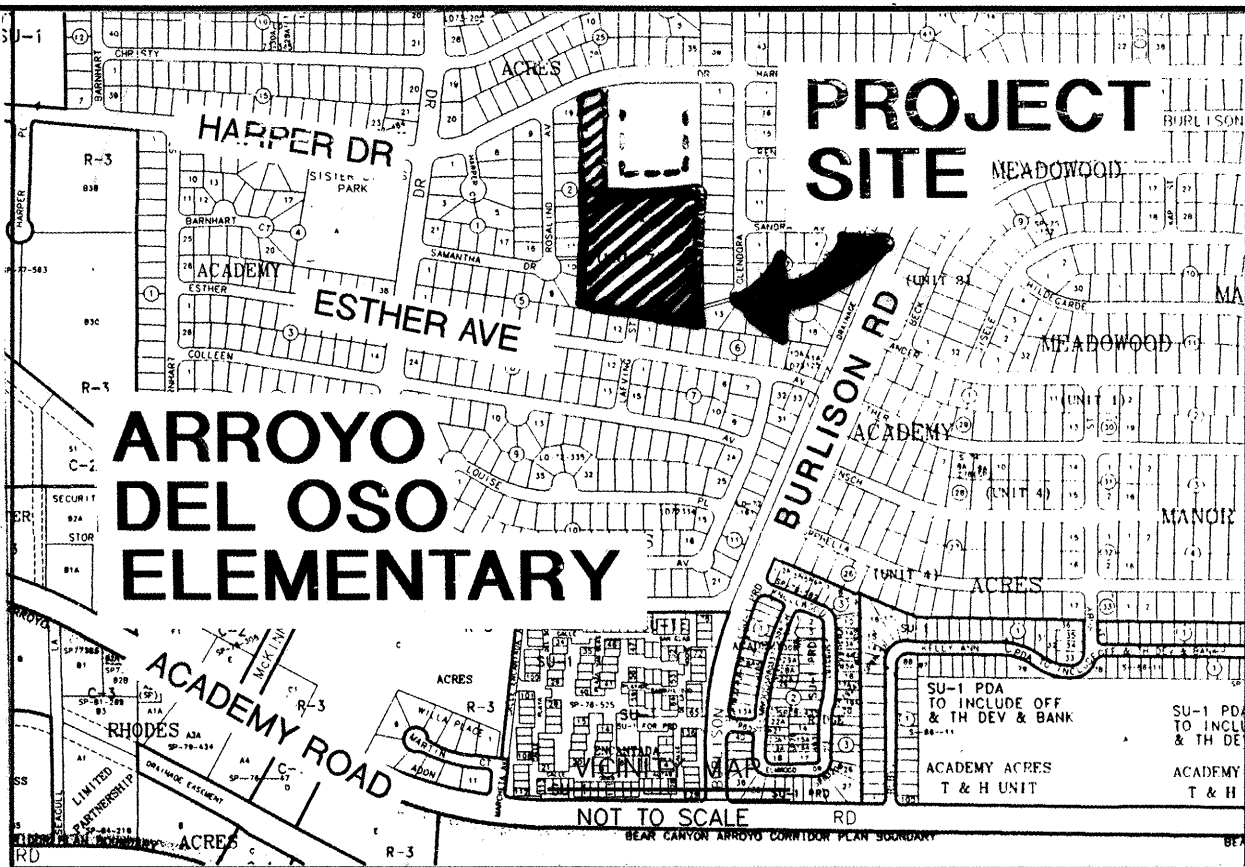
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FOR INFORMATION ONLY

CONSTRUCTION NOTES:

- ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- 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.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- 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 THERETO 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.
- 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.



NOTICE TO CONTRACTORS

- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC BY CONTRACTOR TO LOCATION AND IN KIND 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 PERMANENT 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.
- THREE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- 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 AND AS PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS AND DETAILS.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

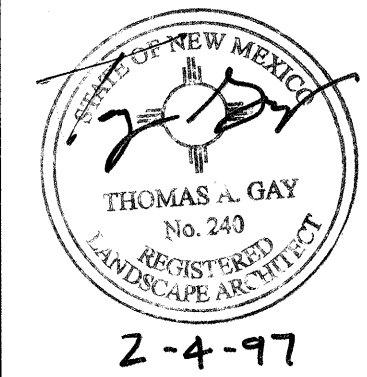
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSED 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.

FOR INFORMATION ONLY



1/23/97

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE



REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		Billie J. Smith		2-28-97	
		Transportation		K. Smith		2/24/97	
		Water/Wastewater		K. Smith		2/18/97	
		Hydrology		C. Montoya		2-26-97	
		Const. Mngmt.		Kathy J. McNamee		2-26-97	
NMI							
CITY PROJECT NO.				5308.90			
SHEET				OF			
1				9			

GENERAL NOTES

- SCOPE OF WORK GENERALLY INCLUDES THE REMOVAL AND DISPOSAL, RELOCATION OR INSTALLATION OF NEW AND EXISTING PLAY EQUIPMENT, SITE FURNISHINGS, PLANT MATERIALS, VARIOUS PAVED SURFACES, AND OTHER MISCELLANEOUS IRRIGATION RENOVATIONS TO TWO EXISTING SCHOOL SITES.
- ALL QUANTITIES SHOWN IN PLANT LIST AND IRRIGATION LEGEND ARE FOR CONVENIENCE. CONTRACTOR SHALL BE RESPONSIBLE FOR HIS/HER QUANTITY TAKE OFFS. IN SITUATIONS WHERE PLANS CONFLICT WITH QUANTITIES SHOWN IN PLANT LIST OR IRRIGATION PARTS LIST THE QUANTITIES IN THE PLANS SHALL GOVERN.
- CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. ALL WORK SHALL COMPLY WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, THROUGH UPDATE #6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN ARE IN CONFLICT WITH THE PROPOSED CONTRACT.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS.
- EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR PLANT MATERIALS AND IRRIGATION SYSTEM. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CALL N.M. ONE CALL AT 260-1990 FOR BLUE STAKING. IF PROBLEMS ARE DISCOVERED, CONTACT OWNER'S REPRESENTATIVE TO DETERMINE A COURSE OF ACTION.
- CONTRACTOR SHALL PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. KEEP AREAS FREE OF TRASH AND DEBRIS. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS AT THE CONCLUSION OF EACH CONSTRUCTION SEQUENCE OR AS DIRECTED BY THE OWNERS REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES TO REMAIN WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS 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, EXCAVATION, 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.

PLANTING NOTES

GENERAL

- SCOPE: WORK COVERED IN THESE NOTES CONSISTS OF THE PLANTING OF TREES, GRADING AND MULCHING, INCLUDING THE FURNISHING OF ALL LABOR, EQUIPMENT, MATERIALS AND PERFORMING ALL WORK IN CONNECTION WITH THE DRAWINGS AND SPECIFICATIONS.

PROTECTION

- PROTECTION OF PERSONS AND PROPERTY: CONTRACTOR IS TO BARRICADE OPEN EXCAVATIONS OCCURRING AS PART OF THIS WORK AND POST WITH WARNING LIGHTS OR OTHER WARNING MEASURES AS NECESSARY. PROTECTION OF EXISTING SHRUBS, TREES AND OTHER PLANT MATERIALS ARE ALSO TO BE INCLUDED.
- PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS. ALL DAMAGES THAT MAY OCCUR DURING THIS PHASE OF WORK SHALL BE THE CONTRACTORS FINANCIAL RESPONSIBILITY.

PLANTINGS

- PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE. THE USE OF MATERIALS DIFFERING IN KIND, QUALITY OR SIZE FROM THAT SPECIFIED WILL BE ALLOWED ONLY AFTER THE OWNER'S REPRESENTATIVE IS CONVINCED THAT ALL MEANS OF OBTAINING THE SPECIFIED MATERIALS HAVE BEEN EXHAUSTED. AT THE TIME BIDS ARE SUBMITTED, THE CONTRACTOR IS ASSUMED TO HAVE LOCATED THE MATERIALS NECESSARY TO COMPLETE THE JOB AS SPECIFIED. ALL REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED NO LATER THAN 2 WEEKS PRIOR TO THE INITIATION OF WORK.
- PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK, 1980 EDITION, AS PUBLISHED BY THE COMMITTEE ON HORTICULTURAL STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
- ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORES AND ALL OTHER FORMS OF INFECTIONS.
- UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY OWNER'S REPRESENTATIVE, ALL PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING SPECIES AND VARIETY.
- CONTAINER GROWN PLANT MATERIAL SHALL HAVE BEEN ESTABLISHED IN ITS DELIVERY CONTAINER FOR NOT LESS THAN SIX MONTHS, BUT FOR NOT MORE THAN TWO YEARS. ANY ROOTBOUND MATERIAL WILL NOT BE ACCEPTED.
- BALLED AND BURLAPPED PLANT MATERIAL SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE AND HELD IN PLACE SECURELY BY BURLAP AND A STOUT TWINE OR ROPE. BROKEN OR LOOSE BALLS WILL BE REJECTED.
- ALL PLANT MATERIAL SHALL HAVE A UNIFORM SHAPE AROUND ITS COMPLETE CIRCUMFERENCE, UNLESS OTHERWISE NOTED. PLANT MATERIAL WITH TYPICAL BRANCHING PATTERNS THAT ARE NOT UNIFORM SHALL BE ACCEPTABLE AS NOTED ON PLANT LEGEND. REFERENCE THE PLANT LEGEND FOR ADDITIONAL REQUIREMENTS.
- THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AT THE CONTRACTOR'S YARD PRIOR TO DELIVERY, DURING PLANTING AND AFTER PLANTING AT THE JOB SITE.
- AT THE OPTION OF THE CONTRACTOR, THE OWNER'S REPRESENTATIVE WILL INSPECT PLANT MATERIAL AT A WHOLESALE NURSERY OF THE CONTRACTOR'S CHOICE PRIOR TO DELIVERY OF MATERIALS TO THE CONTRACTOR'S YARD. HOWEVER, AT NO ADDITIONAL EXPENSE TO THE OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAVEL EXPENSES INCURRED BY THE OWNER'S REPRESENTATIVE FOR ANY TRAVEL OUTSIDE OF THE ALBUQUERQUE METROPOLITAN AREA.
- THE OWNER'S REPRESENTATIVE SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO OWNER.
- ALL COLLECTED PLANTS MUST BE PRESENTED ON THE SITE AND SHALL BE IN ACCORDANCE WITH THE NEW MEXICO DEPARTMENT OF AGRICULTURE PLANT PROTECTION ACT, REGULATORY ORDER NO. 4.
- ALL PLANT MATERIALS SHOWN ON PLANS SHALL BE MULCHED AS PER PLANS, DETAILS AND SPECIFICATIONS.
- ALL TREES AND SHRUBS SHALL BE GUARANTEED FOR THE PERIOD OF ONE YEAR, BEGINNING ON THE DATE OF FINAL CONTRACT ACCEPTANCE, AS PER THE SPECIFICATIONS.

MULCHING

WARRANTY

IRRIGATION NOTES

GENERAL

- WORK UNDER THIS SECTION CONSISTS OF INSTALLING A COMPLETE UNDERGROUND IRRIGATION SYSTEM AS SHOWN ON THESE PLANS, DETAILS AND SPECIFICATIONS. THE CONTRACTOR PERFORMING THIS WORK SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS AND PERMITS NECESSARY FOR THE COMPLETION OF THE IRRIGATION SYSTEM, EXCEPT FOR THOSE COMPONENTS SPECIFIED TO BE FURNISHED BY OTHERS.
- EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR IRRIGATION LINES AND EQUIPMENT. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO TRENCHING. CALL N.M. ONE CALL AT 260-1990 FOR BLUE STAKING.
- ALL PLANT MATERIALS SHALL BE IRRIGATED WITH AUTOMATIC IRRIGATION SYSTEMS AS PER PLANS, DETAILS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED ON THE DRAWING.
- WHERE TREES, LIGHT STANDARDS, ETC. ARE AN OBSTRUCTION OF PIPING AND DRIP EMITTERS, THEY SHALL BE ADJUSTED AND/ OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITHOUT EXCESSIVE OVERFLOW.
- PLANS ARE DIAGRAMMATIC AND APPROXIMATE DUE TO SCALE OF DRAWINGS. ALL VALVES SHALL BE LOCATED IN PLANTING AREAS WHERE SHOWN AND ALL PIPING SHALL BE INSTALLED PRIOR TO LANDSCAPING OR PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING. CAP ALL ENDS HAND TIGHT, PRIOR TO BACKFILL.
- COMPLY WITH REQUIREMENTS OF THE UNIFORM PLUMBING CODE AND ANY OTHER GOVERNMENTAL BODIES HAVING JURISDICTION.
- REFER TO IRRIGATION DETAILS, SPECIFICATIONS AND MANUFACTURERS RECOMMENDATIONS FOR ALL INSTALLATION PROCEDURES NOT FULLY DESCRIBED ON THE IRRIGATION PLANS.
- TRENCHES SHALL BE BACKFILLED AS PER SPECIFICATIONS.
- ALL VALVES TO BE IN APPROVED VALVE BOXES. LOCATE VALVE BOXES IN GROUPS OF TWO OR THREE AND NEAR WALKWAYS WHEREVER POSSIBLE.
- COORDINATE CONTROLLER PROGRAMS BY ZONE TO AVOID STATION TIME OVERLAP. TIME SCHEDULES BY ZONE SHOULD BE SUBMITTED TO PROJECT MANAGER AT THE FINAL ACCEPTANCE OF CONSTRUCTION.

COMPONENTS AND PRODUCTS

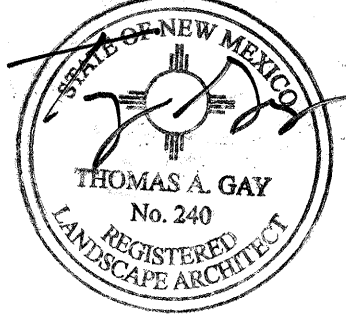
- IF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS DO NOT THOROUGHLY DESCRIBE THE METHOD OR TECHNIQUES TO BE USED FOR INSTALLATION, THEN THE CONTRACTOR SHALL FOLLOW THE INSTALLATION METHODS RECOMMENDED BY THE MANUFACTURER.
- ALL PLANT MATERIALS INSTALLED SHALL HAVE THE AUTOMATIC IRRIGATION SYSTEM FULLY OPERABLE AT THE TIME OF PLANT INSTALLATION.

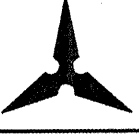

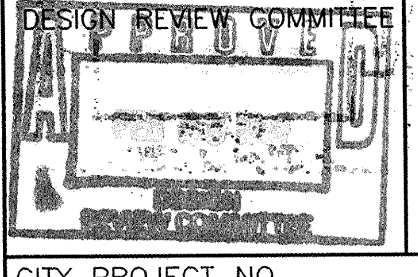
WARRANTY AND MAINTENANCE

- THE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM, IN SATISFACTORY WORKING ORDER, DURING THE TIME OF CONTRACT WORK.
- THE CONTRACTOR SHALL BE LIABLE FOR ANY LOSS OR DAMAGE TO ANY WORK OR MATERIALS, SUPPLIES AND EQUIPMENT ON THE JOB SITE CAUSED BY THE CONTRACTOR, ITS EMPLOYEES OR ANY OTHER UNFORESEEN CAUSE UNTIL FINAL ACCEPTANCE OF PROJECT WITH THE OWNER'S REPRESENTATIVE.
- AT THE TIME OF FINAL ACCEPTANCE, THE CONTRACTOR SHALL DEMONSTRATE TO THE OWNER'S REPRESENTATIVE AND OWNER THAT THE OPERATING PRESSURE AT THE HEAD HAS BEEN ADJUSTED TO MATCH THE SPECIFIED DESIGN OPERATING PRESSURE FOR EACH VALVE.

PLAYGROUND PHASING

- A PORTION OF THE PLAYGROUND SHALL REMAIN IN OPERATION FOR STUDENTS' USE AS MUCH AS POSSIBLE DURING CONSTRUCTION. ENTIRE PLAYGROUND AREA SHALL BE CLOSED AT THE START OF THE PROJECT, FOR A PERIOD OF NOT MORE THAN THREE WEEKS. DURING THIS TIME, DEMOLITION, GRADING AND PHASED COMPLETION OF PLAYGROUND AREAS WILL TAKE PLACE.
- CLOSURE TO BE COORDINATED WITH PRINCIPAL OF ARROYO DEL OSO ELEMENTARY. CONTACT SAM CANDELARIA, 821-9393. PHASED CONSTRUCTION OF PLAYGROUND AREAS SHALL BE AS OUTLINED IN THE PLANS. RELOCATION OF TEMPORARY PROTECTIVE FENCING SHALL OCCUR AS NEEDED TO SEPARATE WORK AREAS FROM PLAYGROUND.

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DATE	
CONTRACTOR	DATE			NO.	BY	DATE	 2-4-97	NO.	DATE	DATE	DATE
WORK SPACED BY	DATE							BY			
APPROVED BY	DATE							REVISIONS			
VERIFICATION BY	DATE							DESIGN			
DRAWINGS CORRECTED BY	DATE							DESIGNED BY:	TAG/PAA	DATE: 1/10/97	
MICRO-FILM INFORMATION								DRAWN BY:	PAA	DATE: 1/10/97	
RECORDED BY								CHECKED BY:	TAG/GRAD	DATE: 1/10/97	
NO.											

 BOHANNAN-HUSTON INC. ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS ALBUQUERQUE LAS CRUCES SANTA FE			
 CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: ARROYO DEL OSO ELEMENTARY SCHOOL LANDSCAPE GENERAL NOTES			
	CITY ENGINEER APPROVAL		MO./DAY/YR.
CITY PROJECT NO. 5308.90		ZONE MAP NO. E-18	SHEET 2 OF 9

DRAINAGE MANAGEMENT SCHEME

INTRODUCTION
Arroyo del Oso Elementary School is located south of Harper Drive between Rosalinda Avenue and Glendora Drive. The site contains an existing school and dirt track, field and play areas. This project proposes to improve the play area and add a parking area south of the existing school building. According to the Flood Insurance Rate Map, the site is not located within a floodplain.

EXISTING CONDITIONS
Currently, most of the site (97% of total area) drains to a paved street, Rosalinda Drive, via concrete runoff located on the west boundary of the site. The remainder of the site (3% of total area) directs offsite flows from a paved street, Glendora Drive, via concrete runoff and earth swale located near the southeast corner of the site directly to Laving Street located at the south boundary of the site. The existing conditions of the site were obtained from the Albuquerque Public Schools Arroyo Del Oso Elementary School Grading Plan, prepared by Jeff Mortensen and Associates, Inc., stamped by Jeffrey C. Mortensen NMPE #8547, dated 5/23/94.

PROPOSED CONDITIONS
This project proposes to pave a portion of the existing dirt play area in order to improve the play area and create a parking area. These improvements will proportionally increase the impervious area while decreasing the Land Treatment "B" area. This will result in a slightly higher stormwater discharge and less sediment draining to Rosalinda Drive via concrete runoff. This project will not modify the existing drainage patterns of this site. The proposed desiltation pond for Basin "A" will control the onsite sediment. The overflow spillway for the pond is designed to transport the runoff from the 100-year, 6-hour storm (Q=35.1cfs).

CALCULATIONS
Methodology = Rational Method
Design Storm Event = 6-hour, 100-year storm
Precipitation Zone = 3
Peak Intensity, I = 5.38 in/hr
Total Area = 10.10 acres
Offsite Area = 15.35 acres
Weighted E = $\frac{E(A) + E(B) + E(C) + E(D)}{A + B + C + D}$
V = Total Area * Weighted E / 12
Q = 1 * $\frac{C(A) + C(B) + C(C) + C(D)}{A + B + C + D}$
Manning's Equation: $Q = 1.49/n * A * R^{2/3} * S^{1/2}$

Basin Definitions
Basin A = majority of the site draining to Rosalinda Drive
Basin B = remainder of the site draining to Laving Street
Basin O = offsite basin from Glendora Drive to Laving Street

Existing Conditions

Basin	"A"	"B"	"C"	"D"	Total	E	V	Q
A	0	51.7	20.7	27.6	9.80	1.39	1.14	33.6
B	0	1.5	0.0	0.30	1.11	0.03	0.09	0.9
O	0	95.0	0.0	61.6	15.35	1.49	1.90	54.3

Manning's Equation (for concrete channel draining to Rosalinda Dr.)
The capacity of the existing concrete runoff to Rosalinda Drive is assumed to be Q=77.4 cfs, assuming that only 1 foot of the 4 foot wall in the runoff is used for the total capacity.
 $Q = 33.6 \text{ cfs}$
 $h = 0.017$
 $A = 4.7 \text{ sq. ft.}$
 $R = 10.6 \text{ ft}$
 $v = 7.2 \text{ fps}$
CHANNEL CAPACITY
 $Q = 77.4 \text{ cfs}$
 $v = 9.8 \text{ fps}$

Proposed Conditions

Basin	"A"	"B"	"C"	"D"	Total	E	V	Q
A	0	45.4	20.7	33.8	9.80	1.48	1.21	35.1
B	0	1.5	0.0	0.30	1.11	0.03	0.09	0.9
O	0	95.0	0.0	61.6	15.35	1.49	1.90	54.3

Manning's Equation (for concrete channel draining to Rosalinda Dr.)
 $Q = 35.1 \text{ cfs}$
 $h = 0.017$
 $A = 4.8 \text{ sq. ft.}$
 $R = 10.6 \text{ ft}$
 $v = 7.3 \text{ fps}$

CONCLUSIONS
Basin A is the only basin affected by the proposed improvements of this project. This basin drains to an existing concrete runoff discharging to Rosalinda Avenue. Using Manning's Equation, we determined that the concrete runoff will experience the following changes:
- the water surface elevation will increase by 0.01 feet,
- the discharge will increase by 1.5 cfs, and
- the velocity will increase by 0.1 fps.
The existing concrete runoff has the capacity to accept this minor increase in flow; therefore, the existing drainage patterns will not change.

The earth-lined drainage channel from Basin O (Glendora Drive) to Laving Street will remain earth-lined (as it is today). Some long-term maintenance to this channel is anticipated from time to time.

STORM WATER POLLUTION PREVENTION PLAN

1. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING THE DESILTATION POND, SPILLWAY/WEIR AND DOWNSTREAM ASPHALT CHANNEL PRIOR TO ANY OTHER CONSTRUCTION ONSITE, AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
2. THE CONTRACTOR MUST CONFORM TO ALL COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS, PERMITS AND APPROVALS. THE COST FOR REQUIRED MEASURES SHALL BE INCIDENTAL TO THE PROJECT COSTS.
3. DURING THE MONTHS OF JULY, AUGUST OR SEPTEMBER, ANY GRADING WITHIN OR ADJACENT TO A WATERCOURSE DEFINED AS A MAJOR FACILITY SHALL PROVIDE FOR EROSION CONTROL AND SAFE PASSAGE OF THE 10-YEAR DESIGN STORM RUNOFF DURING THE CONSTRUCTION PHASE.
4. CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL REQUIREMENTS AND IS RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
5. ALL GRADED AREAS WHICH DO NOT RECEIVE A FINAL SURFACE TREATMENT WILL BE REVEGETATED IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATIONS AND WITH THE RECLAMATION SEEDING SPECIFICATIONS.

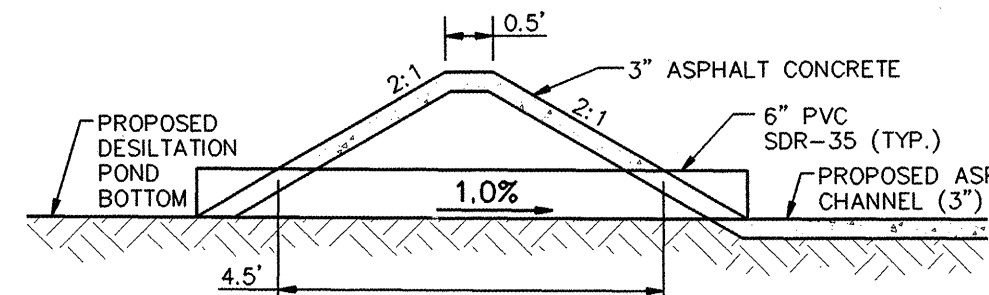
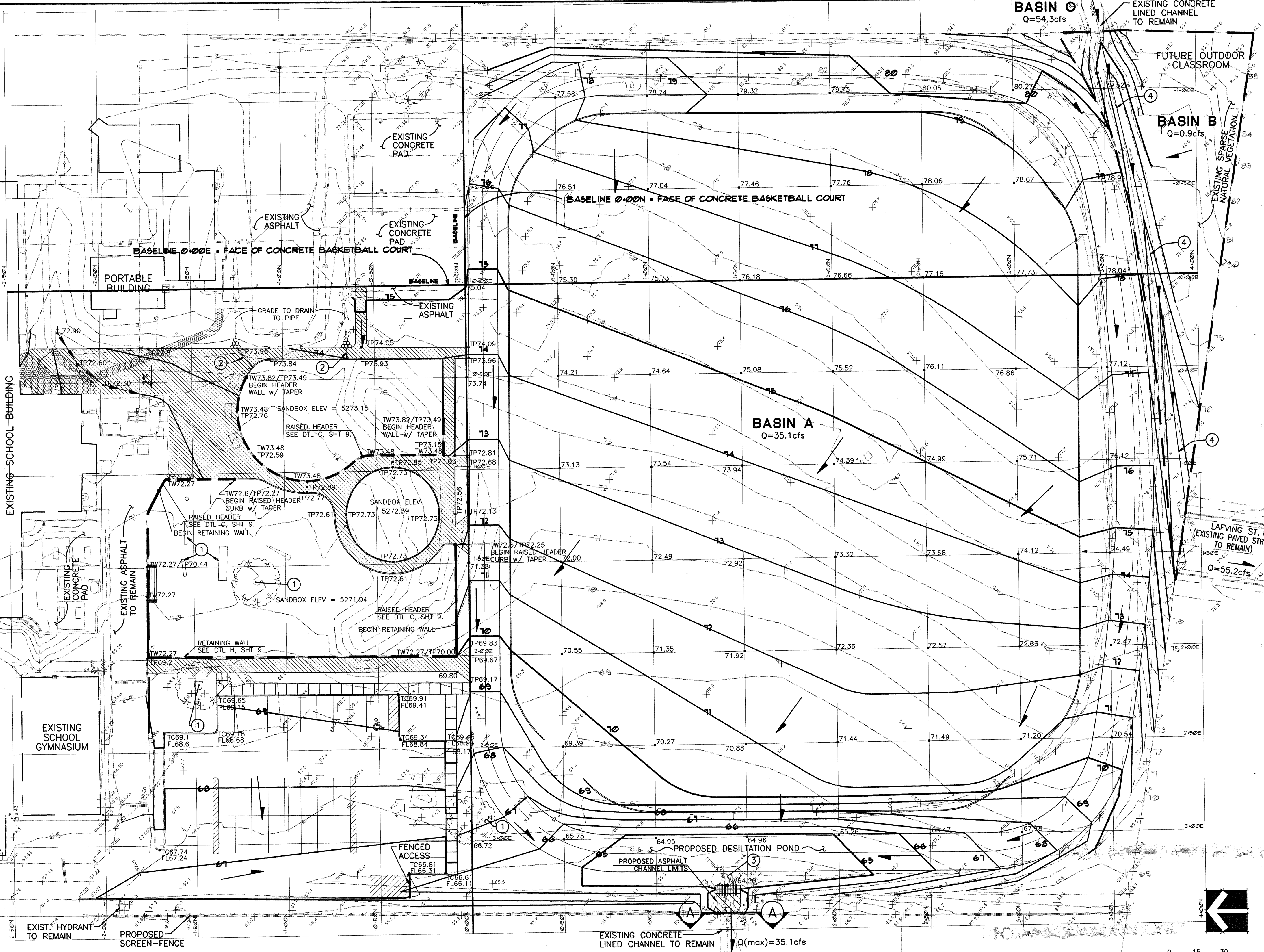
GRADING NOTES

1. PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF GOVERNING BODIES HAVING JURISDICTION.
2. ALL EARTHWORK SHALL BE DONE SO THAT ALL WATER DRAINS AWAY FROM ALL BUILDINGS.
3. FINE GRADING: SURFACE SHALL BE RAKED FREE OF STONES AND EXTRANEOUS MATERIALS AND DEBRIS TO A SMOOTH AND EVEN TEXTURE. ALL EXTRANEOUS MATTER WILL BE DISPOSED OF BY CONTRACTOR.
4. 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.
5. EARTH SLOPES SHALL NOT EXCEED 4 HORIZONTAL TO 1 VERTICAL, UNLESS SHOWN OTHERWISE.
6. EARTH SWALES SHALL HAVE A MINIMUM 1.0% SLOPE IN THE DIRECTION OF FLOW. CONCRETE SWALES/GUTTERS SHALL HAVE A MINIMUM SLOPE OF 0.7%.
7. PAVING AND ROADWAY GRADES SHALL BE $\pm 0.05'$ FROM PLAN ELEVATIONS SHOWN.
8. CONTRACTOR SHALL ENSURE THAT ALL EXISTING TRAFFIC SIGNS WITHIN PROPERTY BOUNDARY REMAIN INTACT AND IN GOOD CONDITION THROUGHOUT CONSTRUCTION. IF REQUIRED, THESE SIGNS WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

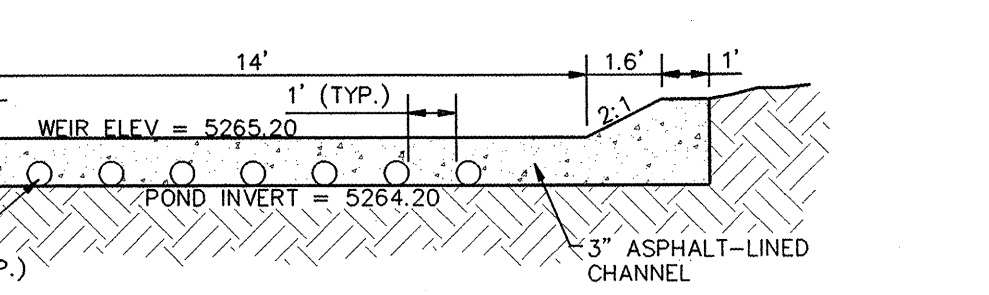
DRAINAGE CERTIFICATION

I, JAMES TOPMILLER, OF BOHANNAN-HUSTON, INC., N.M.P.E. #9354, HEREBY CERTIFY THAT THE AS-BUILT DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED GRADING AND DRAINAGE PLAN, TO THE BEST OF MY KNOWLEDGE AND BELIEF. AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN WHERE THE ORIGINAL DESIGN ELEVATION HAS BEEN CROSSED OUT AND THE AS-BUILT ELEVATION ADDED. AS-BUILT ELEVATIONS WERE VERIFIED BY THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR'S METHODS OR MATERIALS.

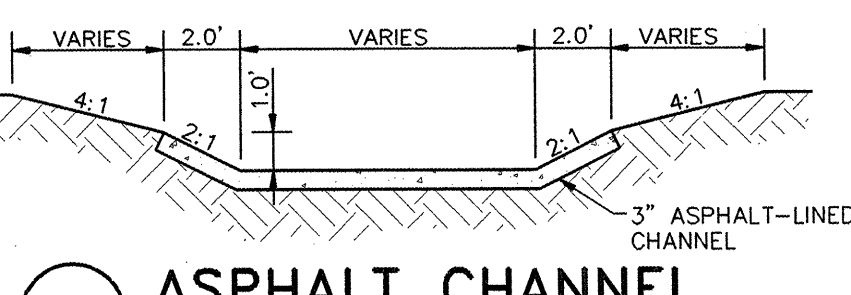
SIGNATURE _____ DATE _____



2 SPILLWAY/WEIR SECTION N.T.S.



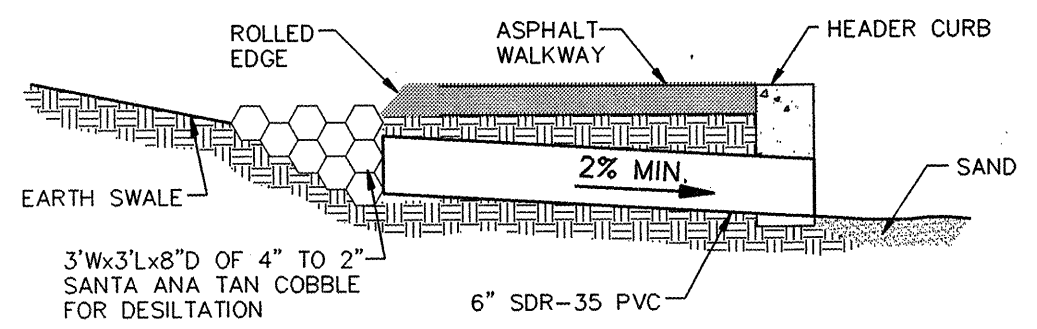
1 SPILLWAY ELEVATION DETAIL N.T.S.



A ASPHALT CHANNEL N.T.S.

GRADING/DRAINAGE KEYED NOTES

- 1 TIE TO EXISTING GRADES.
- 2 INSTALL 6" DRAIN PIPE PER DETAIL 3 THIS SHEET.
- 3 REMOVE EXISTING ASPHALT RUNDOWN AND BUILD PROPOSED ASPHALT SPILLWAY & CHANNEL PER DETAILS 1&2 THIS SHEET.
- 4 PROPOSED DRAINAGE CHANNEL SHALL BE GRADED TO 4:1 MAX. SIDE SLOPES AND COMPACTED TO 90% ASTM D1557 DENSITY.



3 DRAIN PIPE DETAIL N.T.S.

GRADING LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- DIRECTION OF FLOW
- RETAINING WALL
- HEADER WALL

LEGAL DESCRIPTION

LANDS OF THE ALBUQUERQUE BOARD OF EDUCATION, TRACT "A" ACADEMY ACRES SUBDIVISION UNIT 7 IN THE CITY OF ALBUQUERQUE.

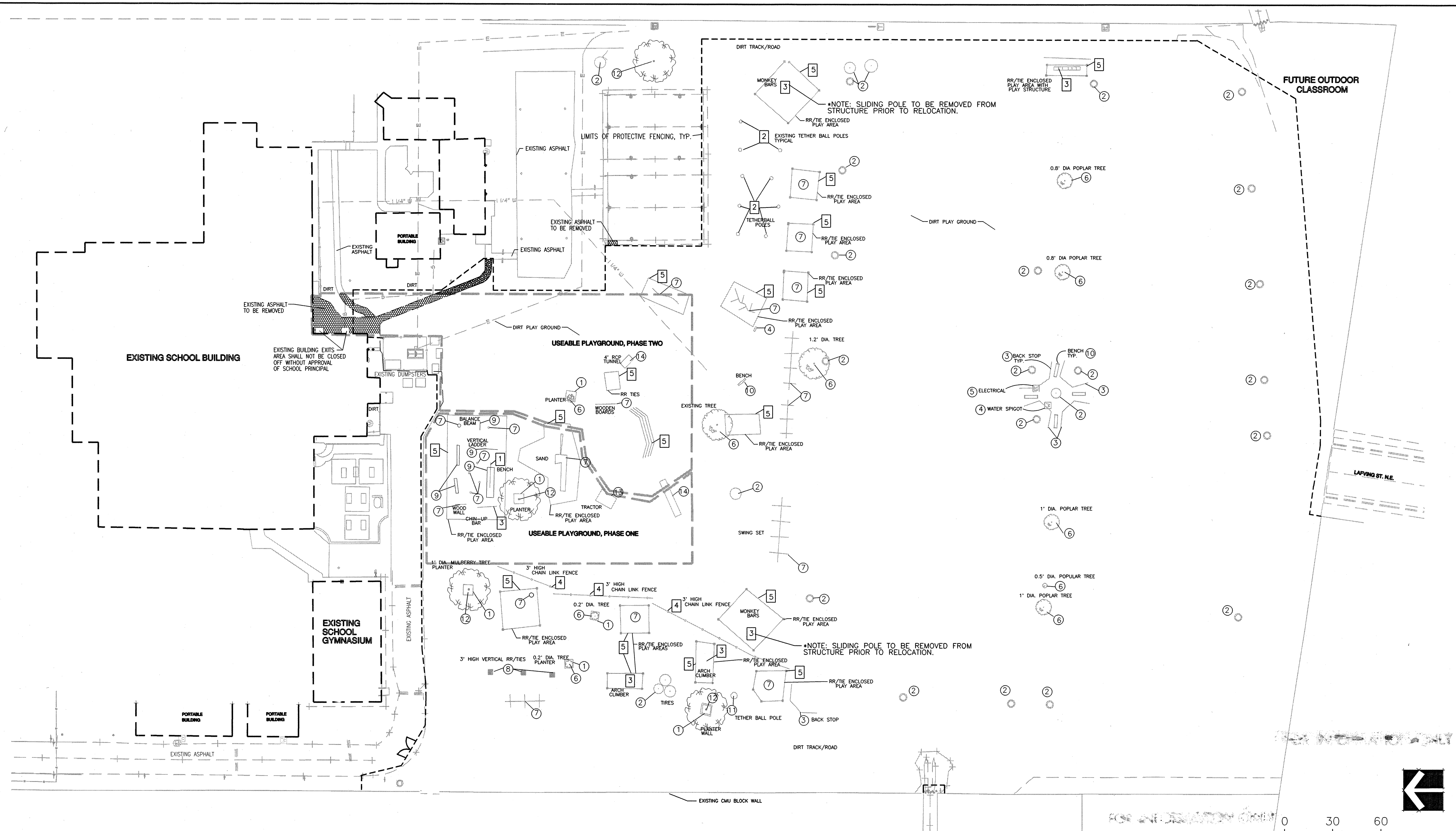
BOHANNAN-HUSTON INC. ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP

TITLE: ARROYO DEL OSO ELEMENTARY SCHOOL GRADING PLAN

DESIGNED BY: TAG/PA/KMB DATE: 2/12/97
DRAWN BY: PAJ/RB/KMB DATE: 2/12/97
CHECKED BY: JT/TAG/KMB DATE: 2/12/97

CITY PROJECT NO. 5308.90 ZONE MAP NO. E-18 SHEET 3 OF 9



DEMOLITION NOTES

- 1 REMOVE AND DISPOSE OF EXISTING CMU PLANTER AT PLAY AREA.
- 2 REMOVE AND DISPOSE OF EXISTING TIRES.
- 3 REMOVE EXISTING BACKSTOPS AND DISPOSE OF.
- 4 REMOVE AND DISPOSE OF EXISTING DRINKING FOUNTAIN AND WATER SPIGOT. FIELD LOCATE AND CAP EXISTING WATER LINE UPSTREAM AND OUT OF THE LIMITS OF THE PLAYGROUND AREA AND TURFGRASS FIELD.
- 5 REMOVE EXISTING ELECTRICAL OUTLET AND ELIMINATE POWER SUPPLY AT ITS SOURCE.
- 6 REMOVE AND DISPOSE OF EXISTING TREE.
- 7 REMOVE AND DISPOSE OF EXISTING PLAY EQUIPMENT.
- 8 REMOVE AND DISPOSE OF EXISTING VERTICAL RAILROAD TIES.
- 9 EXISTING PLAY EQUIPMENT TO REMAIN.
- 10 REMOVE AND DISPOSE OF EXISTING BENCHES.
- 11 EXISTING TETHERBALL POLE TO BE REMOVED AND DISPOSED OF.
- 12 EXISTING TREE TO REMAIN.
- 13 EXISTING TRACTOR TO BE REMOVED AND DISPOSED OF.
- 14 EXISTING RCP TUNNELS TO BE REMOVED AND DISPOSED OF.

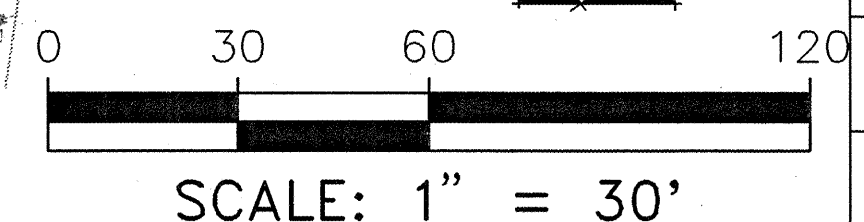
REMOVAL AND RELOCATION NOTES

- ALL ITEMS LISTED BELOW TO BE REMOVED AND RELOCATED AS PER THE PLAYGROUND ENLARGEMENT PLAN, SHEET 8 OF 9, UNLESS OTHERWISE NOTED.
- 1 REMOVE EXISTING BENCH AND RELOCATE AS SHOWN ON THE PLAYGROUND ENLARGEMENT PLAN.
 - 2 REMOVE AND RELOCATE EXISTING TETHERBALL POLES. ANY UNUSED POLES ARE TO BE DISPOSED OF.
 - 3 REMOVE AND RELOCATE EXISTING PLAY STRUCTURE.
 - 4 REMOVE AND RELOCATE EXISTING CHAIN LINK FENCE, AS SHOWN ON THE CONSTRUCTION PLAN. (SEE SHEET #5)
 - 5 REMOVE AND RELOCATE EXISTING RAILROAD TIE EDGERS. ALL UNUSED EDGERS TO BE DISPOSED OF. RAILROAD TIES TO BE RE-INSTALLED AT LIMITS OF SAND, BASE BID, AS SHOWN ON THE PLAN.

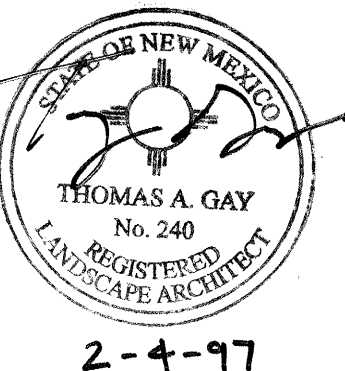
GENERAL DEMOLITION NOTES

CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIALS TO REMAIN. DRIVING OR PARKING OF VEHICLES, OR TRENCHING SHALL NOT BE PERMITTED UNDER EXISTING TREES.

CONTRACTOR SHALL REPLACE IN KIND, ALL PLANT MATERIALS DAMAGED, AT THE CONTRACTOR'S EXPENSE AS DETERMINED BY THE OWNER'S REPRESENTATIVE.



AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	ALBUQUERQUE CITY SURVEY CONTROL	DATE	NO.	BY	NO.	BY	NO.	DATE	NO.	DATE
INSPECTED BY	DATE	MONUMENT NO. 1-E18A AS SHOWN	DATE								
ACCEPTANCE BY	DATE	ON DESIGNATED SHEET C-490 OF	DATE								
VERIFICATION BY	DATE	THE CITY OF ALBUQUERQUE, PUBLIC	DATE								
CONTRACTED BY	DATE	WORKS DEPARTMENT MONUMENT BOOKS	DATE								
MICRO-FILM INFORMATION	DATE	AS UPDATE 12, HAVING A NGVD1929	DATE								
RECORDED BY	DATE	ELEVATION OF 5222.426 FEET.	DATE								
NO.											



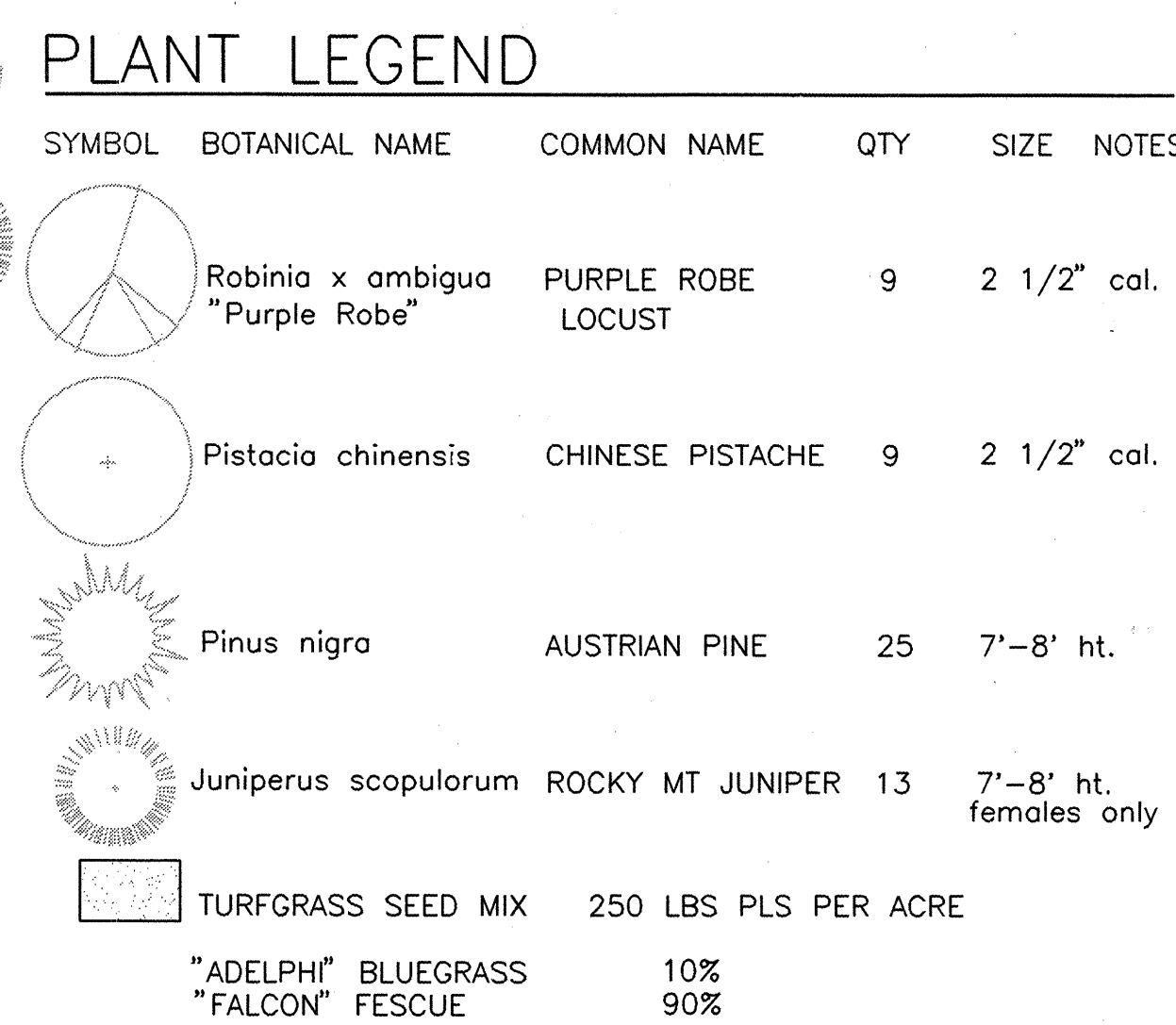
BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ARROYO DEL OSO ELEMENTARY SCHOOL
DEMOLITION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. **5308.90** ZONE MAP NO. **E-18** SHEET **4** OF **9**












0 30 60 120

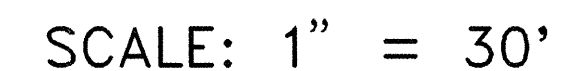
SCALE: 1" = 30'

PLANTING NOTES

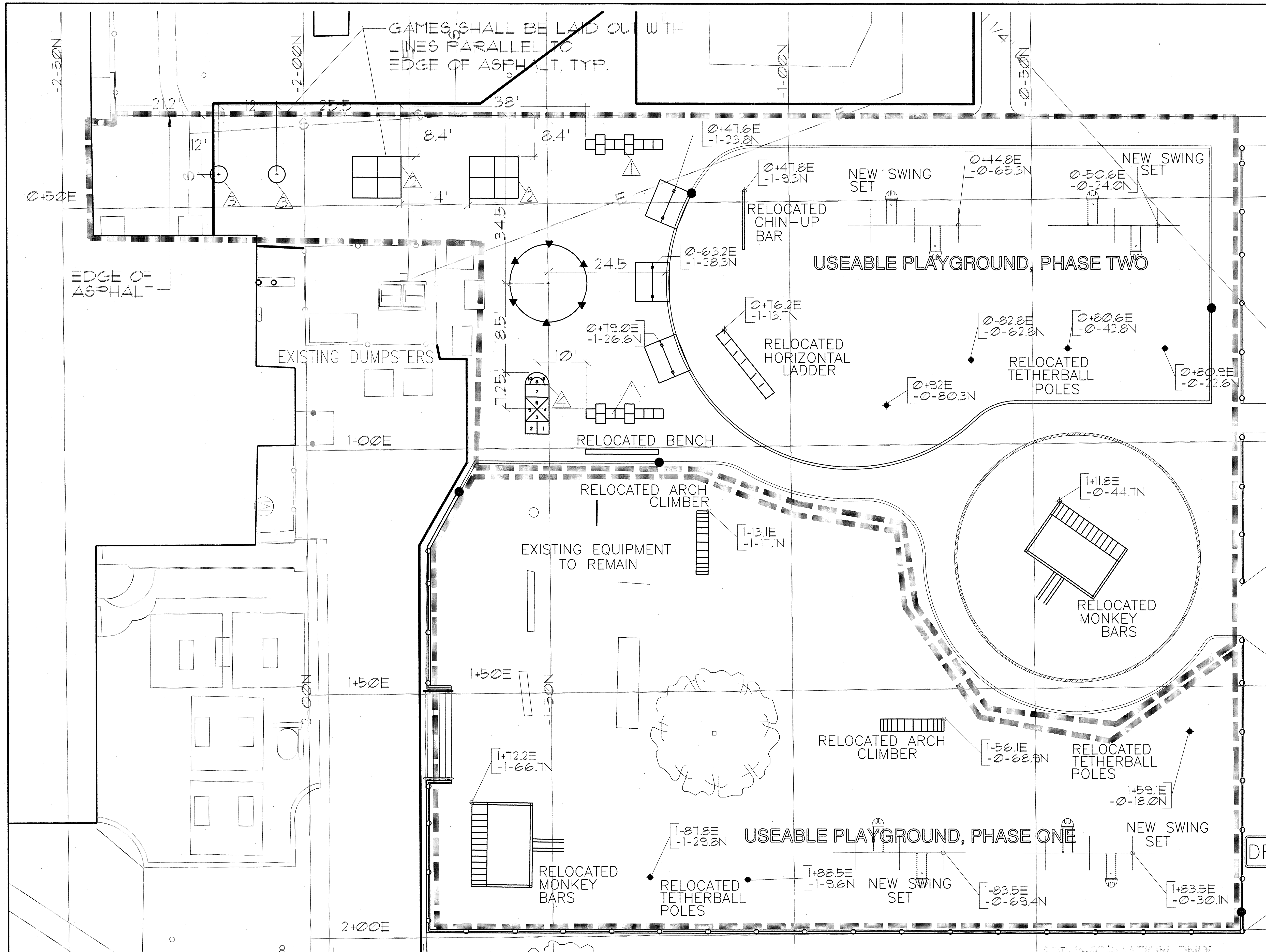
LIMITS OF MAINTENANCE RESPONSIBILITY SHALL BE AS SHOWN ON THE PLANS. CONTRACTOR SHALL FURNISH A SURVEY WITH A LEGAL DESCRIPTION DESIGNATING THESE BOUNDARIES, UPON COMPLETION OF WORK.

ALL TREES SHALL BE INSTALLED AS PER COA STD DWG #2714.

	BOHANNAN-HUSTON INC. ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS ALBUQUERQUE LAS CRUCES SANTA FE
	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP
TITLE: ARROYO DEL OSO ELEMENTARY SCHOOL PLANTING PLAN	
	CITY ENGINEER APPROVAL
	LAST DESIGN UPDATE
	MO./DAY/YR.
	MO./DAY/YR.
	MO./DAY/YR.
	MO./DAY/YR.
	MO./DAY/YR.



FILENAME: ADOPLNT.DWG
BHI JOB NO. L96108 C2601



GENERAL NOTES

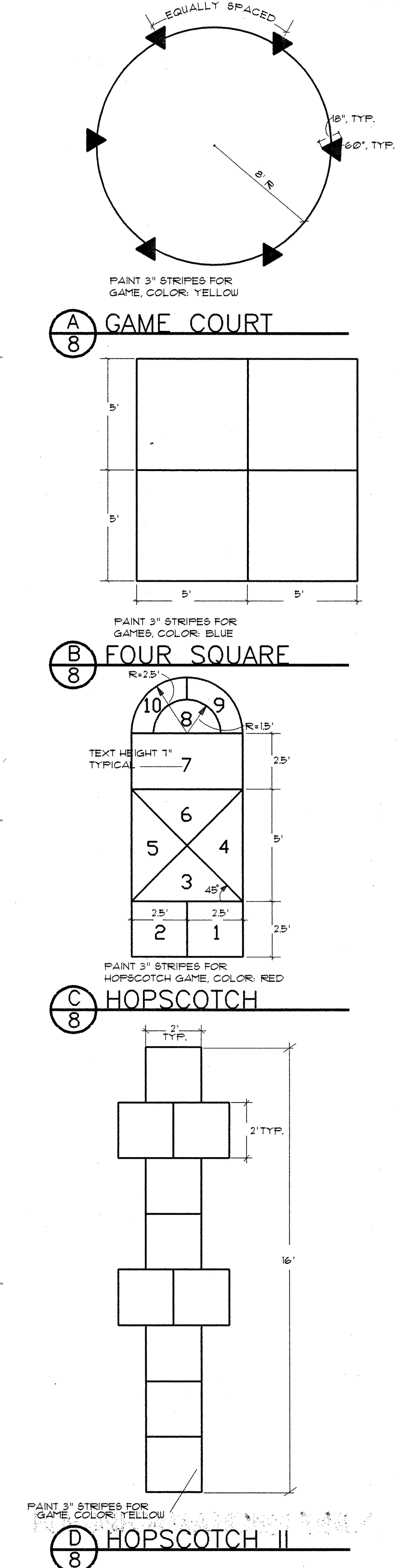
- ALL GAMES SHALL BE STRIPED WITH ALKYD TRAFFIC PAINT, AS MANUFACTURED BY WELLBORN, TWO COATS EACH COLOR. SEE PLAN AND DETAILS FOR COLORS.
- FOR BASELINE FOR GRID AS SHOWN, REFERENCE GRID LAYOUT, SHEET 5 OF 9.

STRIPING - KEYED NOTES

- PAINT HOPSCOTCH GAME STRIPING. REFERENCE DETAIL B/8, OR D/8.
- PAINT FOUR SQUARE GAME STRIPING. REFERENCE DETAIL A/8.
- PAINT MARBLE CIRCLES, COLOR: RED.
- PAINT GAME COURT, REFERENCE DETAIL E/8.

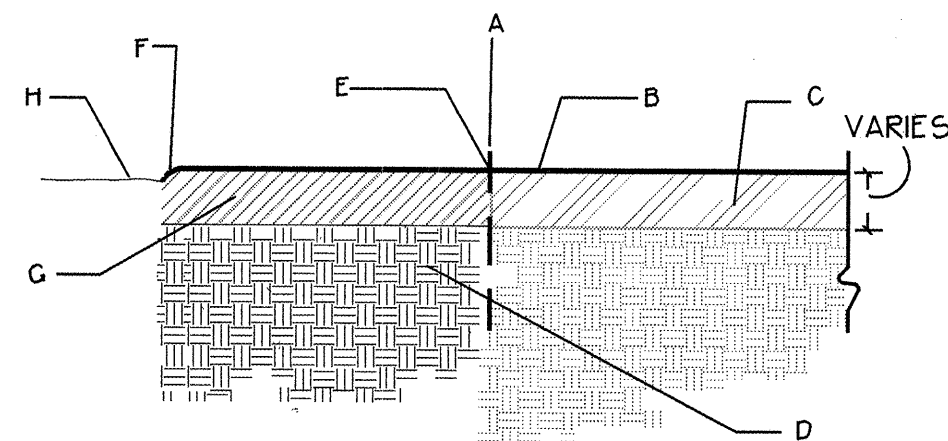
PLAYGROUND EQUIPMENT

- INSTALL GAMETIME HEAVY DUTY 3-LEG MODERN PAINTED SWING SETS WITH BELT SEAT PKG. SWINGS SHALL BE 8' HEIGHT, RED IN COLOR. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. CONTACT: LEISURE DESIGN SYSTEMS 1-800-543-2232.



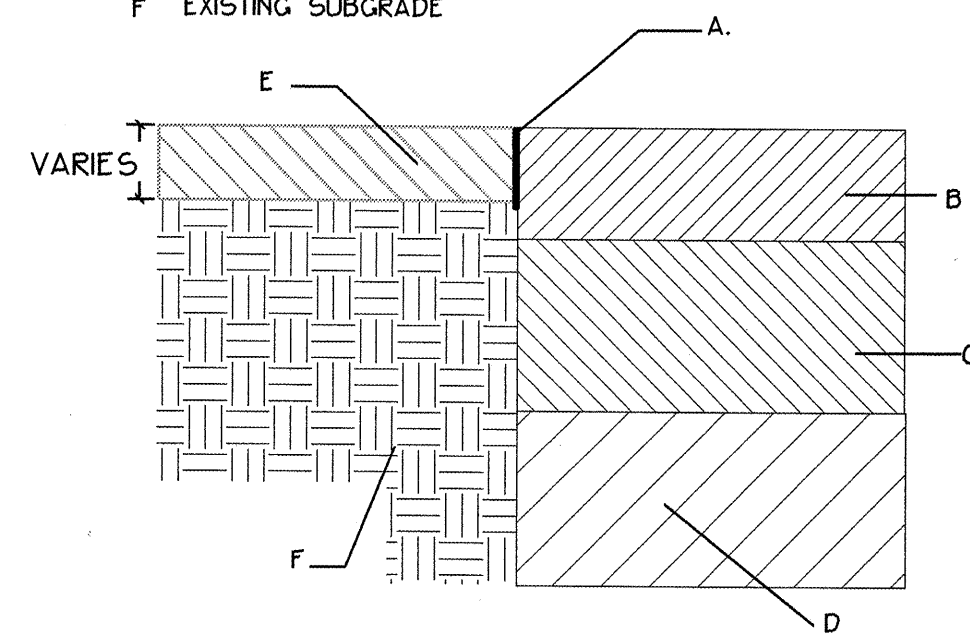
BOHANNAN-HUSTON INC. ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS ALBUQUERQUE LAS CRUCES SANTA FE	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: ARROYO DEL OSO ELEMENTARY SCHOOL PLAYGROUND ENLARGEMENT	
DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL LAST DESIGN UPDATE	MO./DAY/YR. MO./DAY/YR. SHEET 8 OF 9
CITY PROJECT NO. 5308.90	ZONE MAP NO. E-18

- A. NOTE: SAWCUT TO A STRAIGHT EDGE ALL AREAS WHERE NEW ASPHALT ABUTS EXISTING ASPHALT TO REMAIN, AND AS SHOWN ON PLAN.
- B. EXISTING AND PROPOSED ASPHALT SHALL BE SEALED WITH ASPHALT EMULSION PAVEMENT SEALER, SEALMASTER "MASTERSEAL II E-Z STIR" OR APPROVED EQUAL.
- C. EXISTING ASPHALT TO REMAIN. REMOVE ALL EXISTING VEGETATION AND DEBRIS. CLEAN CRACKS WITH WIRE BRUSH AND FILL WITH ELASTOMERIC COLD POUR CRACK FILLER, SEALMASTER "FLEXMASTER CRACK SEALANT" OR APPROVED EQUAL.
- D. 6" SUBGRADE, COMPACTED TO 95% MAXIMUM DENSITY.
- E. FINISH GRADE TO MATCH EXISTING.
- F. 1/2" DEPTH, ROLLED EDGE.
- G. 2" ASPHALT CONCRETE FINISH COURSE, 1500 LBS STABILITY, TYPE B GRADATION.
- H. EXT. GRADE.

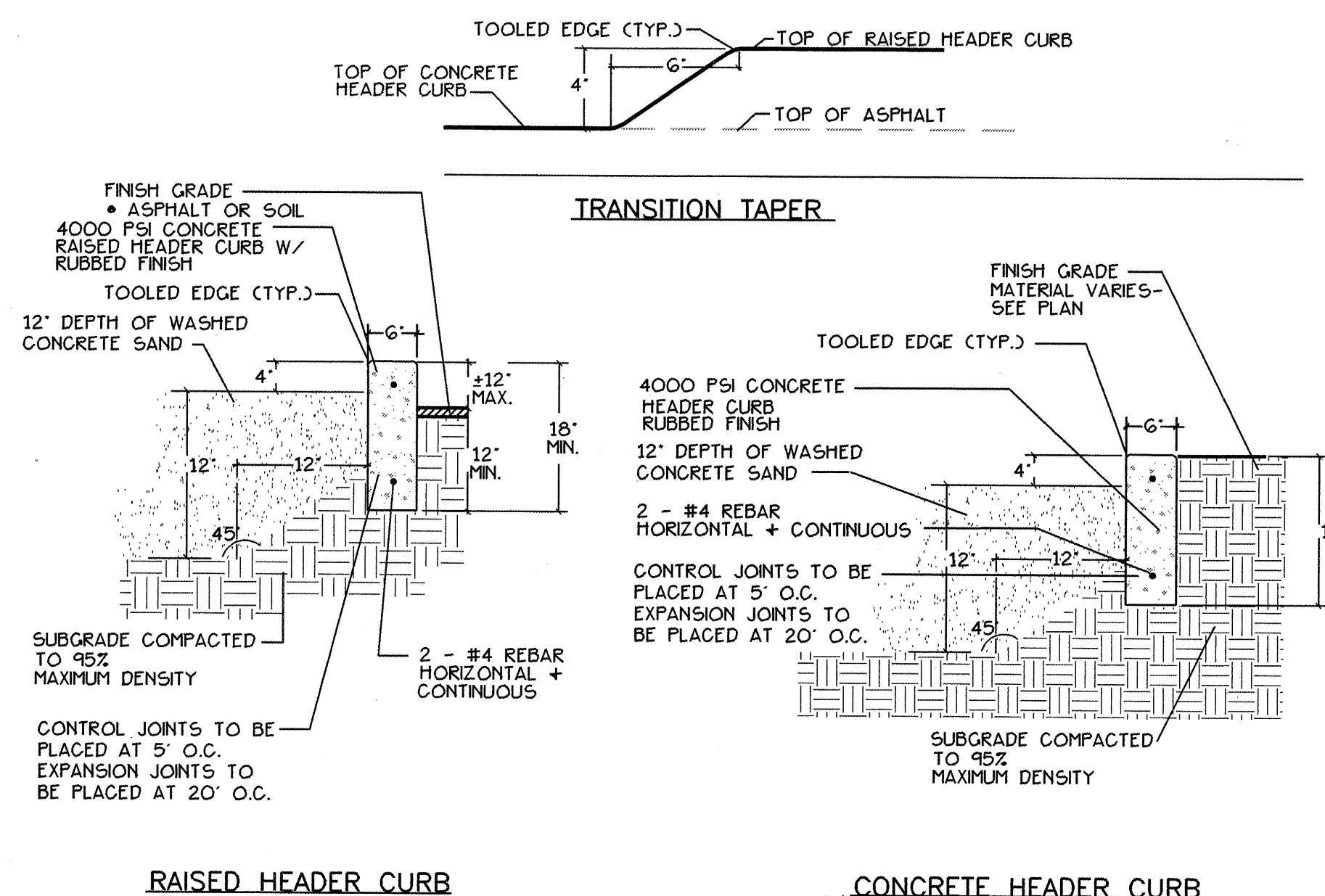


A PLAYGROUND ASPHALT PAVING
N.T.S.

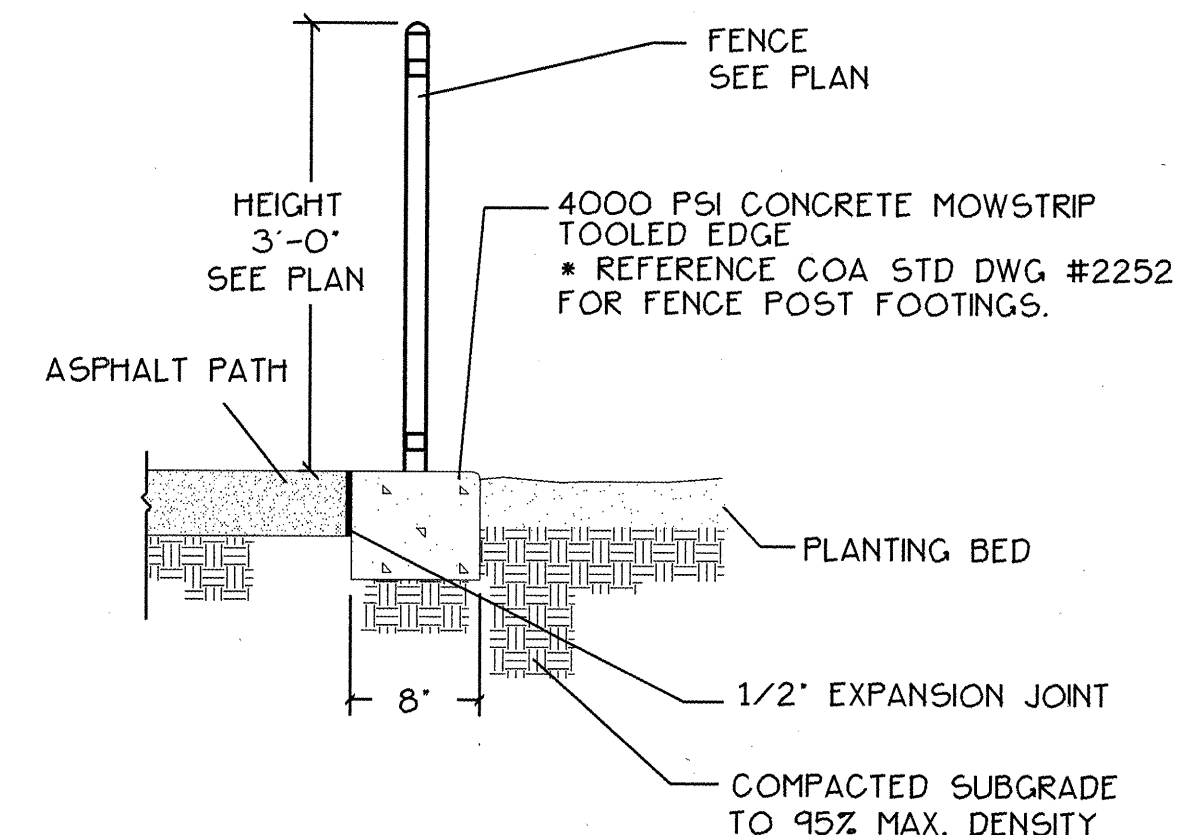
- A. NOTE: SAWCUT TO A STRAIGHT EDGE ALL AREAS WHERE NEW ASPHALT ABUTS EXISTING ASPHALT TO REMAIN, AND AS SHOWN ON PLAN.
- B. 2" ASPHALT CONCRETE.
- C. 4" AGGREGATE BASE CONCRETE.
- D. 8" SUBGRADE, COMPACTED TO 95% MAXIMUM DENSITY.
- E. EXISTING ASPHALT.
- F. EXISTING SUBGRADE.



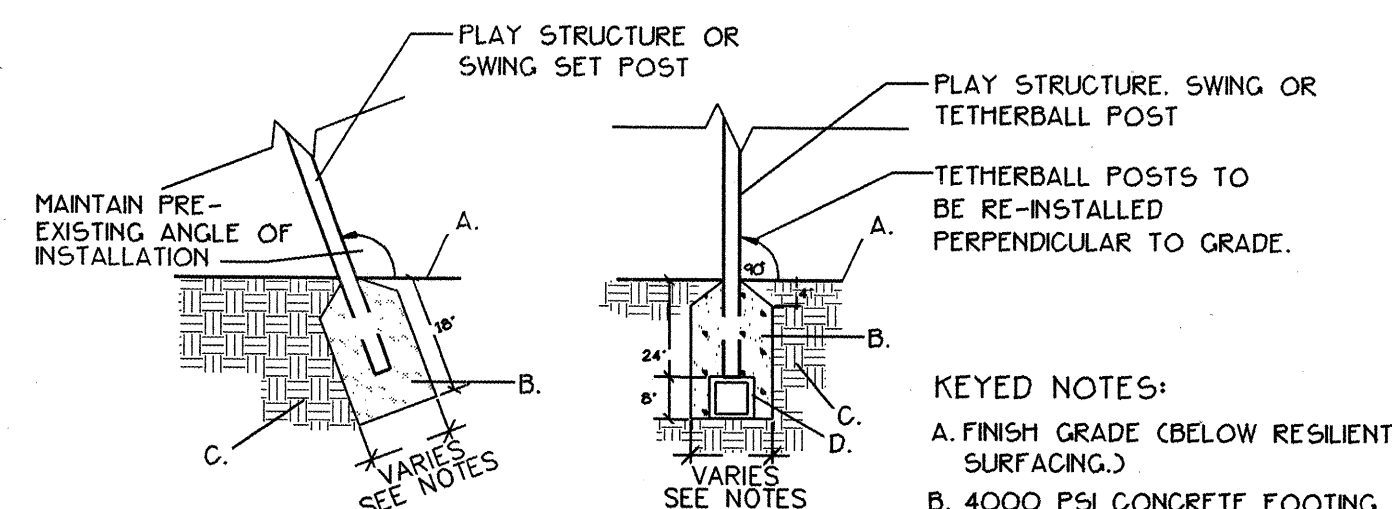
B PARKING LOT ASPHALT
N.T.S.



C CONCRETE HEADER CURB AND RAISED HEADER CURB
N.T.S.

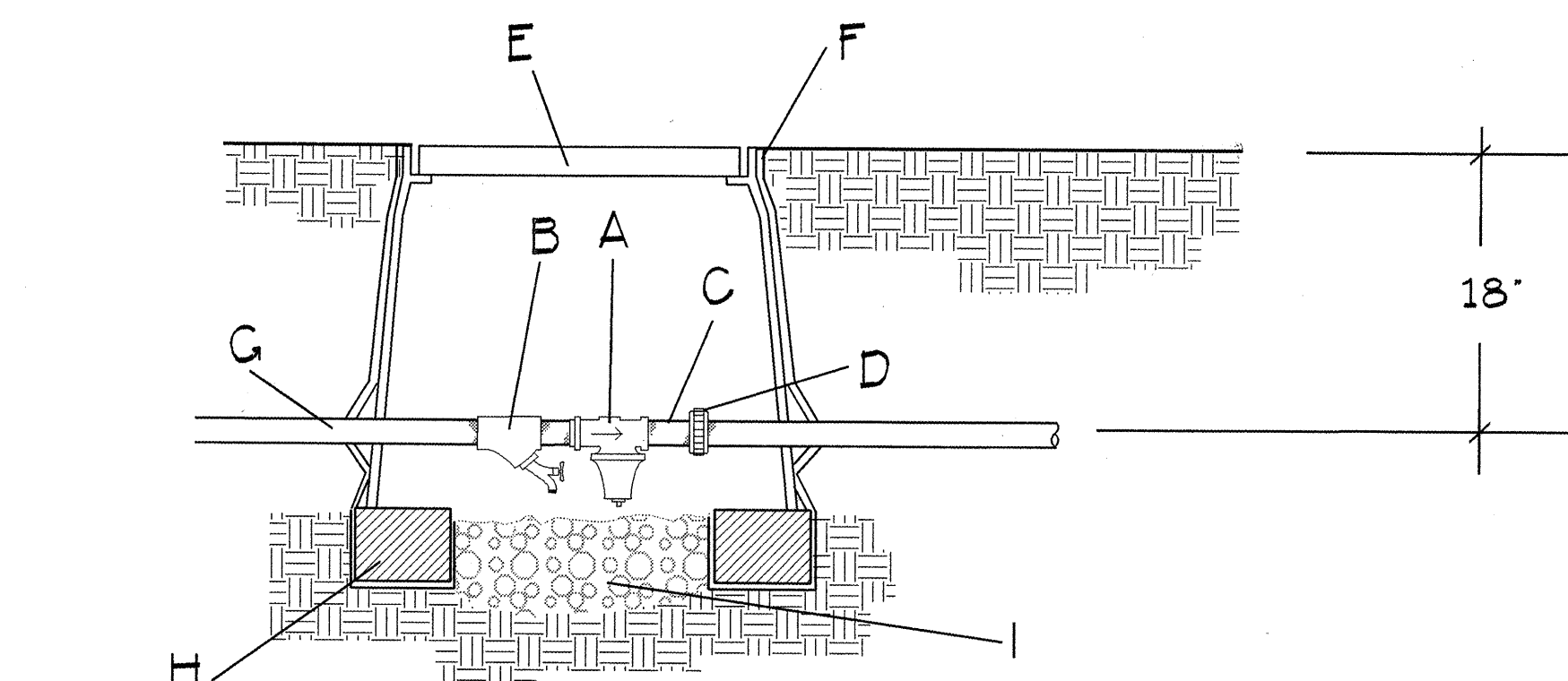


D CONCRETE MOWSTRIP AT FENCE
N.T.S.



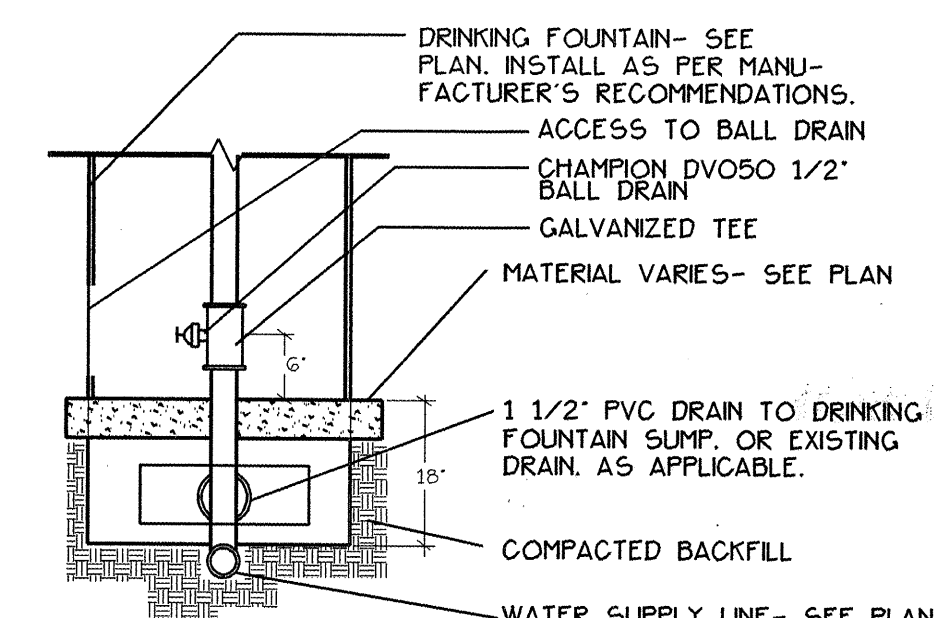
- CONSTRUCTION NOTES:
- CONTRACTOR SHALL REMOVE ALL EXISTING CONCRETE FROM POSTS PRIOR TO RE-INSTALLATION.
 - CONTRACTOR SHALL RE-INSTALL FOOTINGS FOR PLAY STRUCTURES AND SWINGS AT EXISTING SPACING + HEIGHT ABOVE GRADE UNLESS OTHERWISE NOTED.
 - DIAMETER OF FOOTING SHALL BE 18" FOR PLAY STRUCTURES AND SWINGS, 12" FOR TETHERBALL POSTS.

E PLAY EQUIPMENT RE-INSTALLATION
N.T.S.

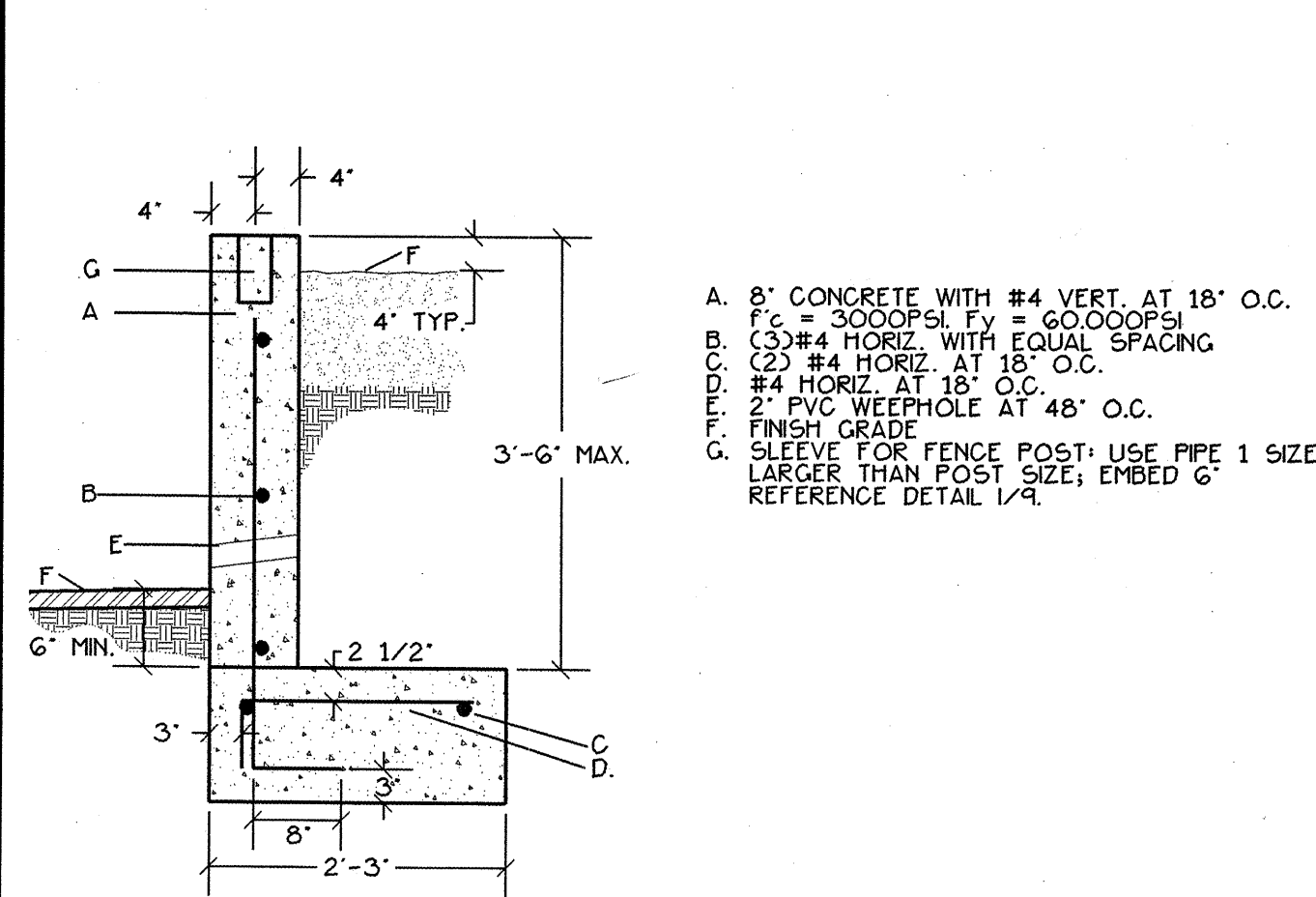
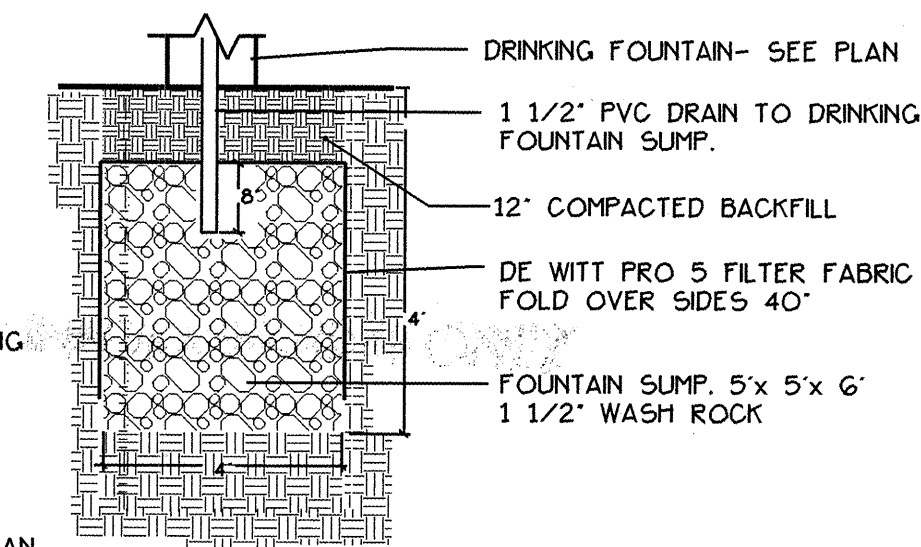


- (A) PRESSURE REDUCING VALVE
(B) WYE STRAINER
(C) SCH. 80 PVC NIPPLE
(D) SCH. 80 PVC UNION
(E) BROOK'S PRODUCTS INC. 1730 PB-18 BODY (ABS) VALVE BOX WITH 1730 BOLT DOWN COVER (ABS) AND (C) 8 INCH EXTENSION.
- (F) 6mm BLACK POLYETHYLENE TAPE TO ALL INLET AND OUTLET LINES
(G) MAINLINE
(H) 8" X 8" X 16" SOLID CMU BLOCK
(I) 2 CU. FT. 1" DIAMETER WASHED ROCK.

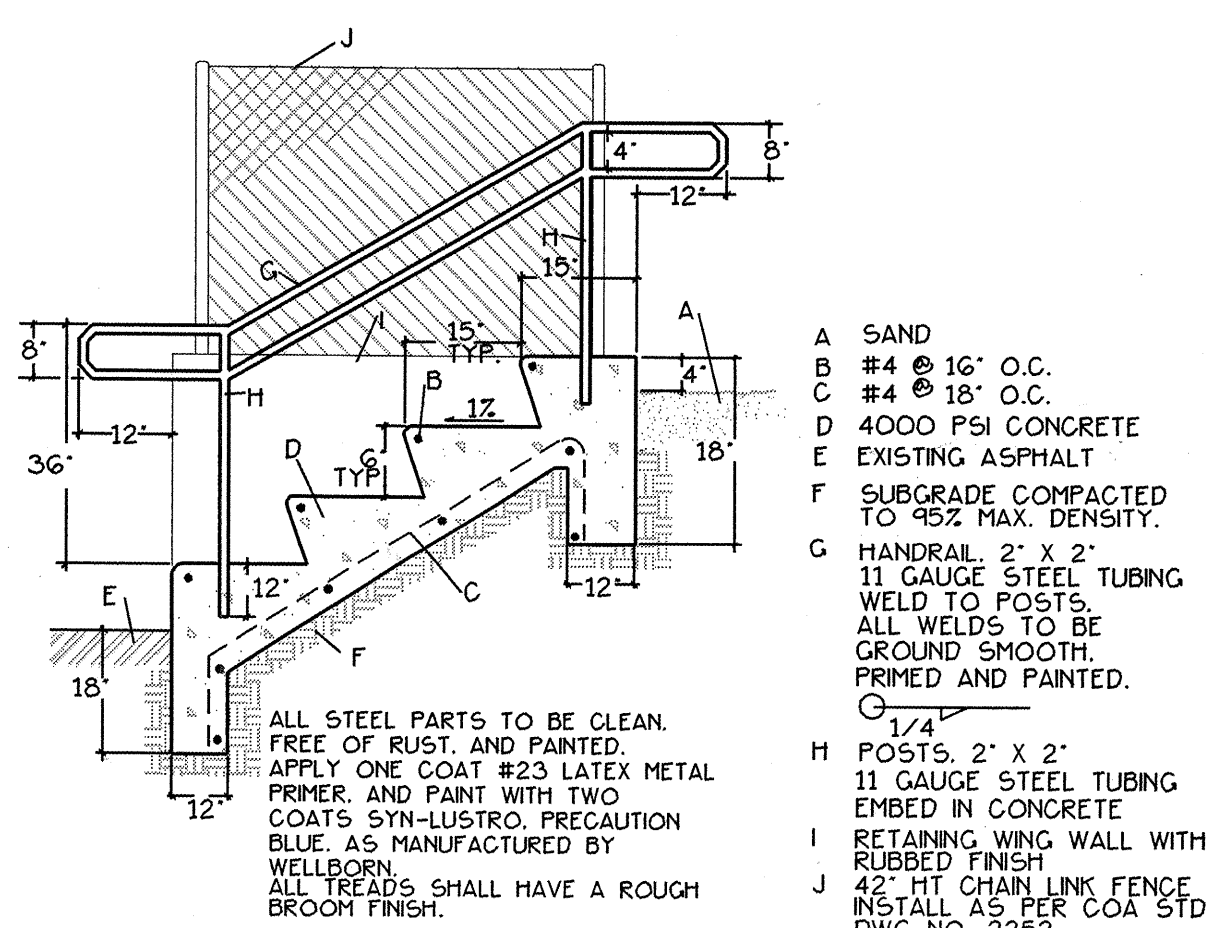
F MAINLINE PRESSURE REDUCING VALVE
NOT TO SCALE



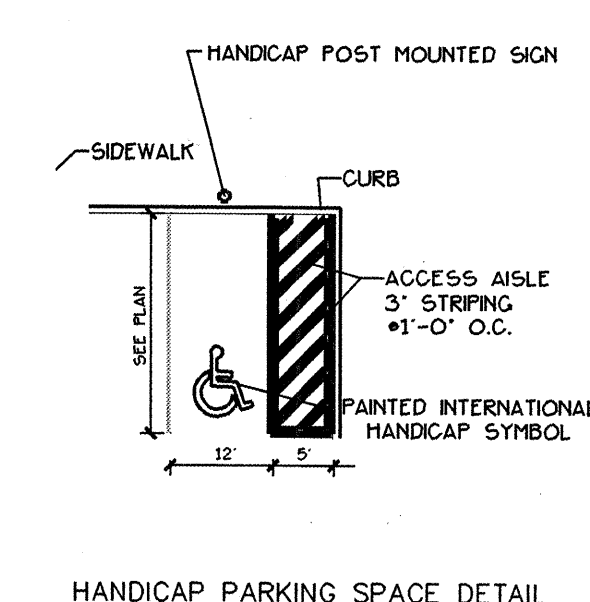
G DRINKING FOUNTAIN DRAIN AND SUMP
NOT TO SCALE



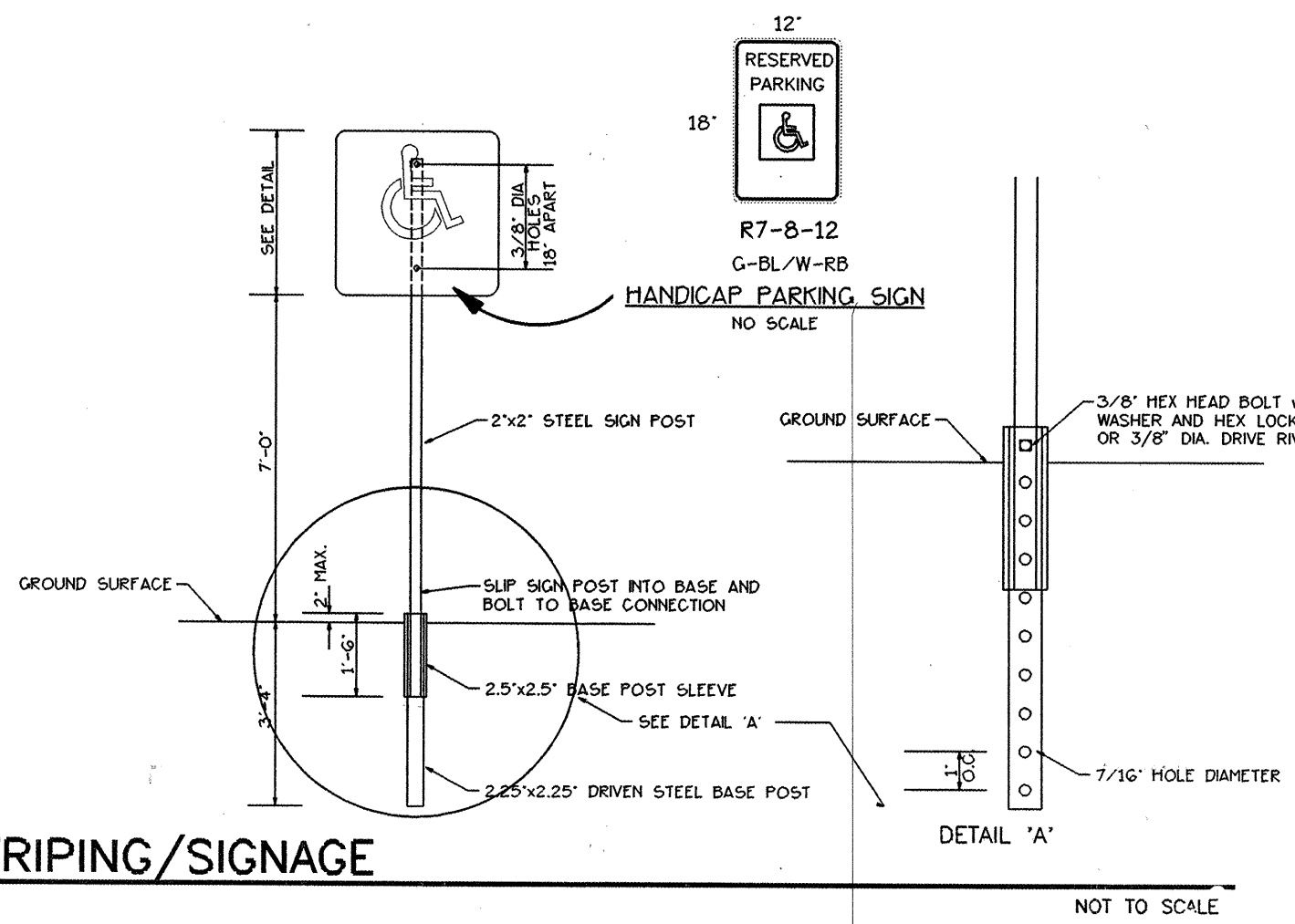
H CONCRETE RETAINING WALL WITH CHAINLINK FENCE SLEEVING
NOT TO SCALE



I CONCRETE STAIRS W/STEEL HANDRAIL
NOT TO SCALE



J HANDICAP PARKING STRIPING/SIGNAGE
NOT TO SCALE



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ALBUQUERQUE LAS CRUCES SANTA FE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ARROYO DEL OSO ELEMENTARY SCHOOL
DETAILS

DESIGNED BY: TAG/PAW
DRAWN BY: PAA
CHECKED BY: TAG/GRAD

DATE: 1/10/97
DATE: 1/10/97
DATE: 1/10/97

CITY PROJECT NO. 5308.90
ZONE MAP NO. E-18
SHEET 9 OF 9